U.S. ARMY CORPS OF ENGINEERS CIVIL WORKS PROGRAM

CONGRESSIONAL SUBMISSION FISCAL YEAR 2004

GREAT LAKES AND OHIO RIVER DISVISION

Budgetary information will not be released outside the Department of the Army until 3 February 2003

Justification of Estimates for Civil Function Activities Department of the Army, Fiscal Year 2004

GREAT LAKES AND OHIO RIVER DIVISION

Corps of Engineers

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SUMMARY, GREAT LAKES AND OHIO RIVER DIVISION

General Investigations	FY 2003 Allocation	FY 2004 <u>Request</u>	Increase or <u>Decrease</u>
Surveys	TBD	5,555,000	TBD
Preconstruction Engineering and Design	TBD	3,145,000	TBD
Subtotal, General Investigations	TBD	8,700,000	TBD
Construction General			
Construction	TBD 1/	303,920,000 2/	TBD
Dam Safety Assurance	TBD	26,546,000	TBD
Subtotal, Construction General	TBD	330,466,000	TBD
Operation and Maintenance			
Project Operation	171,814,000	173,111,000	1,297,000
Project Maintenance	177,429,000	191,225,000	13,796,000
Subtotal, Operation and Maintenance	349,243,000	364,336,000	15,093,000
Grand Total, Great Lakes and Ohio River Division	TBD	616,668,000	TBD

^{1/} The amount to be derived from the Inland Waterways Trust Fund in FY 2003 is TBD.

^{2/} Includes an estimated \$107,810,000 to be derived from the Inland Waterways Trust Fund in FY 2004.

APPROPRIATION TITLE: General Investigations, Fiscal Year 2004				Great Lakes and Ohio River Division	
Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
1. SURVEYS – NEW: None.					
2. SURVEYS - CONTINUING:					
a. Navigation Studies.					
Ohio River Main Stem Systems Study,	50,300,000	45,370,000	TBD	1,350,000	TBD

KY, IL, IN, OH, PA and WV

Louisville District

The study is an inland navigation systems analysis to address the level of investments needed to provide an efficient navigation system on the Ohio River Main Stem. The study will identify the maintenance, major maintenance, major rehabilitation and new construction investment needs for the navigation locks and dams along the Ohio River Main Stem. These structures are crucial to the orderly development of navigation throughout the Ohio River Basin. As traffic grows through the Ohio River Valley, several lock structures will experience increasing delays, which may be particularly severe during times of maintenance (when the existing chambers must be closed for routine or emergency repairs or accidents). Other locks may become increasingly unreliable due to age and cycles of use. Any closure of the main locks will result in severe traffic impacts. Over the past ten years, traffic on the Ohio River has grown at an annual average rate of 2 percent. In 2000, total tonnage reached 236 million tons, which was a 22 percent increase over 1987. Energy-related commodities comprised 62 percent of the total tonnage, with aggregates and steel commodities contributing 18 percent and 7 percent, respectively. By 2030, it has been projected that total tonnage may reach 370 million tons.

The study is investigating the economic, social, and environmental impacts of both large-scale investments and small-scale improvements. Large-scale improvements could involve constructing a new lock chamber at certain facilities, lengthening existing 600' chambers to provide at least two 1200' chambers, or provision of replacement locks and dams at older facilities (such as Emsworth, Dashields, or Montgomery Locks and Dams). Small scale improvements could include installation of permanent mooring cells near lock approach points (which could enhance tow mooring in queuing situations and possibly speed up double-cut processing), providing spare lock gates, new procedures to speed up lock maintenance, and other infrastructure or procedural opportunities that could be identified during the study. The study has also addressed ecosystem restoration opportunities.

FY 2003 funds are being used to continue engineering, economic, and environmental system analyses, and efforts on the System Investment Plan (a plan of major Ohio River mainstem navigation investments through 2060) and the Cumulative Effects Assessment (an evaluation of cumulative impacts to environmental resources in and along the mainstem of the Ohio River). FY 2004 funds will be used to continue engineering, economic, and environmental system analyses incorporating the system-wide cumulative effect assessment and enhanced economics evaluation into the System Investment Plan. The study completion date is to be determined.

Great Lakes and Ohio River Division

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Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Great Lakes Navigational System, MI, IL, IN, MN, NY, OH, PA and WI Detroit District	7,000,000	1,130,000	TBD	740,000	TBD

The Great Lakes/St. Lawrence Seaway navigation system is an international waterway that provides a minimum 25.5' safe draft for nearly 2,300 miles. The system extends from the Atlantic Ocean throughout the Great Lakes to Duluth, MN through a system of 19 locks and over 600 miles of maintained navigation channels. The system extends through eight states and two Canadian provinces. The navigation system is operated and maintained by both the United States and Canadian Governments through the St. Lawrence Seaway Development Corporation (DOT), Transport Canada and the U.S. Army Corps of Engineers. The system has an enormous impact on the North American economy, and provides a catalyst for billions of dollars of capital investment and industrial growth to both the United States and Canada. Section 456 of the Water Resources Development Act of 1999 directed the Corps to review the feasibility of improving commercial navigation on the Great Lakes navigation system, including locks, dams, harbors, ports, channels, and other related features, in consultation with the St. Lawrence Seaway Development Corporation.

Prior to initiation of the feasibility study, additional information is needed, as a supplement to the reconnaissance report, for determination of the Federal interest. This study is unique and is not part of the inland navigation system. The purpose of this effort is to provide further information to assure a Federal decision on whether to proceed with the feasibility study. This effort will also include an assessment of baseline without-project conditions for the environment, engineering features and economic conditions, as well as public involvement and coordination. Should the recommendation be to proceed with further studies, this phase must also determine the scope of additional studies, including cost and duration, and develop a Project Management Plan. Since the system is an bi-national waterway, coordination with Canada occurred during the development of the Reconnaissance Report. Canada has expressed an interest in participating in future study efforts.

The Reconnaissance Report for this study has been completed (June 2002). FY03 and FY04 funds will be used to continue with the ongoing reconnaissance phase.

The reconnaissance phase completion date is to be determined.

TOTAL: Navigation Studies 57,300,000 46,500,000 TBD 2,090,000 TBD

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
b. Flood Damage Prevention Studies					
Des Plaines River, IL & WI (Phase II) Chicago District	4,900,000	832,000	TBD	278,000	TBD

The Des Plaines River Basin starts in southwest Wisconsin and flows south into northeast Illinois. The study area, located in Lake and Cook Counties in northeastern Illinois and Kenosha County in southeast Wisconsin, has a drainage area of approximately 481 square miles. The Des Plaines River has a long history of flooding which has caused significant economic losses. The maximum flood of record, in September 1986, caused an estimated \$35,000,000 in damage to 10,000 dwellings and 263 business and industrial sites and severely impacted the entire transportation network in the Chicago metropolis--air, rail, and road. Section 419 of the Water Resources Development Act of 1999 directs that the Corps not exclude from consideration and evaluation flood damage reduction measures based on restrictive policies regarding the frequency of flooding, the drainage area, and the amount of runoff. Complementary to flood damage reduction, this study emphasizes formulating plans along the main stem and on 15 tributaries in both Illinois and Wisconsin that include environmental restoration and protection, improved water quality, and related recreation opportunities in this rapidly urbanizing portion of the Chicago area. The Illinois Department of Natural Resources, Lake County Storm Management Commission, County of Kenosha, and Cook County Highway Department are sponsors for the project. The Feasibility Cost Sharing Agreement was executed on February 27, 2002.

FY 2003 funds are being used for data gathering for flood control measures, ecosystem restoration measure, water quality and related recreation opportunities. FY 2004 funds will be used to continue the feasibility study.

The preliminary estimated cost of the feasibility phase is \$9,800,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of the cost sharing is as follows:

Total Estimated Study Cost	\$9,800,000
Feasibility Phase (Federal)	4,900,000
Feasibility Phase (Non-Federal)	4,900,000

The feasibility phase completion date is to be determined.

3 February 2003

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Metropolitan Louisville, Mill Creek Basin, KY Louisville District	850,000	100,000	TBD	176,000	TBD

The study area is located within the Mill Creek watershed in southwest Jefferson County, Kentucky. The study area is protected from flooding from the Ohio River by the Southwest Jefferson County Flood Protection system, which was completed in 1988. However, there are nearly 3,300 homes and businesses, with an estimated value in excess of \$100,000,000, that are still subject to flooding from local streams. Approximately 3.5 square miles, or 10 percent, of the basin's entire drainage area is located in the designated floodplain. The most recent flooding in the basin occurred in August 1992, as a result of headwater flooding in the Mill Creek Basin. Damages for this flood, estimated to have a recurrence interval of 10 to 20 years, were in excess of \$1,200,000, at current price levels. During the flood of record in March 1964, approximately 900 residential properties were damaged. The study will evaluate solutions to the flooding problems. The solutions being considered are detention basins, as well as channel modifications, earth levees, and non-structural measures. The non-Federal sponsor for this study is the Louisville and Jefferson County Metropolitan Sewer District (MSD). MSD indicated by letter, dated February 9, 1996, that flooding in the Mill Creek Basin is one of its priority problem areas and that they understand the cost sharing requirements for the feasibility phase. The Feasibility Cost Sharing Agreement is scheduled to be executed in July 2003.

FY 2003 funds are being used to continue into the feasibility study efforts consisting of hydrologic and hydraulic analysis, economic analysis, and preliminary design of the alternatives. FY 2004 funds will be used to continue feasibility study efforts consisting of an engineering, economic, and environmental analysis of the flood damage reduction components. The estimated cost of the feasibility phase is \$1,500,000, which is cost shared on a 50-50 basis by Federal and non-Federal interests. Up to one-half of the non-federal share may be in-kind services. A summary of study cost sharing is as follows:

\$1,600,000
100,000
750,000
750,000

The reconnaissance phase is scheduled for completion in July 2003. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Metropolitan Louisville, Southwest, KY Louisville District	2,274,000	1,634,000	TBD	225,000	TBD

The Metropolitan Louisville, Southwest, study area encompasses a drainage area of approximately 24 square miles including the west and south ends of Louisville, Kentucky. The highly urbanized flood plain includes the main campus area of the University of Louisville, as well as the Churchill Downs neighborhood, site of historic Churchill Downs racecourse. The frequency of flooding has increased over the last few years as a result of overland and combined storm sewer overflows. Components of the existing local flood protection project are inadequate at high Ohio River stages. Flooding occurred in the study area in 1983, 1989, August 1992 (which included loss of life), and most recently in March 1997 when more than 5,000 residential and commercial structures, the Kentucky Fair and Exposition Center, the area around Churchill Downs, and the main campus of the University of Louisville were damaged. Average annual damages in the study area exceed \$5,000,000. The Louisville and Jefferson County Metropolitan Sewer District (MSD) is a strong local sponsor. MSD executed the Feasibility Cost Sharing Agreement in June 1999.

The reconnaissance report recommended initiation of feasibility phase studies which would evaluate operational modifications and/or physical improvements to the pump stations located on the Ohio River associated with the existing Federally constructed flood damage prevention project. FY 2003 funds are being used to continue feasibility study efforts consisting of environmental studies, formulation of the recommended plan, and design and cost estimates of plan components; and, completing the hydrologic and economic evaluation of project alternatives. FY 2004 funds will be used to continue the feasibility study efforts. The estimated cost of the feasibility phase is \$3,300,000, which is cost shared on a 50-50 basis by Federal and non-Federal interests. Up to one-half of the non-Federal share may be in-kind services. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$ 3,924,000
Reconnaissance Phase (Federal)	624,000
Feasibility Phase (Federal)	1,650,000
Feasibility Phase (Non-Federal)	1,650,000

The reconnaissance phase was completed in June 1999. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Western Lake Erie Basin, OH, MI and IN Buffalo District	2,100,000	400,000	TBD	130,000	TBD

The Western Lake Erie Basin (WLEB) lies within the three adjoining states of Ohio, Michigan, and Indiana. The basin includes the Maumee, Portage, and Ottawa Rivers. These rivers are major tributaries to Lake Erie at Toledo Harbor in Maumee Bay, OH. The purpose of this project is to develop measures to improve flood control, water quality, navigation, fish and wildlife habitat, and recreation in a comprehensive manner in the WLEB. The lower main stem of the Maumee River has been identified as one of 43 Areas of Concerns (AOCs) in the Great Lakes Basin. Excessive sediment loading has negatively impacted the water quality in some areas of the Bay. Periodic maintenance of the Federal commercial navigation channel requires disposal of contaminated sediments into a confined disposal facility at considerable Federal expense. Two-thirds of the 1,000,000 cubic yards of material dredged annually are being confined, filling existing facilities about three times faster than planned. Also, flood events have been documented at a number of locations, particularly along the Maumee and Portage Rivers, the Blanchard River at Ottawa, and various locations along the Ottawa River in Michigan and Ohio. The Portage River flooded three times in the last five years. The reconnaissance report, authorized by Section 441 of Water Resources Development Act of 1999, has identified several alternative measures and concepts to address the above stated problems in the areas of sediment quality, water quality, fish and wildlife habitat restoration, flood damage reduction, pollution source reduction, source reduction of soil erosion, lack of storage capacity for dredged material disposal, wetland restoration, and contaminated sediment clean-up etc. These concepts provide for comprehensive ecosystem restoration including habitat and wetland restoration, elimination of bacterial loadings and pollutants of concern, improvement to navigation channels, reduction of flood damage, and improvement of combined sanitary sewers and home sewage disposal. Identified potential non-Federal sponsors for the feasibility studies are the Toledo Metropolitan Area Council of Government, the Toledo-Lucas County Port Authority and the City of Toledo. Given the large size of the basin, several feasibility studies will result. The first feasibility study under consideration would likely address the Maumee Bay restoration and remediation projects to include bacterial loading in sediment, combined sewer overflow abatement. Brownfields, storm water, habitat restoration, and flood mitigation.

Available funds in FY 2003 funds will be used to complete the reconnaissance phase of the WLEB study. If the reconnaissance report is certified to be in accordance with policy, FY 2004 funds would be used to begin sediment sampling and analysis. The preliminary total cost of the first feasibility study is estimated at \$3,400,000, which will be cost shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows.

Total Estimated Study Cost	\$3,800,000
Reconnaissance Phase (Federal)	400,000
Feasibility Phase (Federal)	1,700,000
Feasibility Phase (Non-Federal)	1,700,000

The reconnaissance phase is scheduled for completion in May 2003. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Davidson County, Mill Creek Watershed, TN Nashville District	913,000	113,000	TBD	243,000	TBD

Mill Creek is a major tributary of the Cumberland River in southeastern Davidson County and northwestern Williamson County. The Mill Creek watershed is 108 square miles and contains the federally listed endangered Nashville Crayfish. A recurrence of the May 1979 flood of record would cause an estimated \$93,000,000 in flood damages today. Over 1,000 homes and businesses are subject to flooding. Corrective measures evaluated during the reconnaissance study include floodway evacuation combined with wetland restoration and enhancement. These outputs will be further refined during the feasibility phase. The sponsor is the Metropolitan Government of Nashville and Davidson County. The sponsor understands its cost sharing responsibilities and has expressed an interest in cost sharing the feasibility phase, by letter of intent dated March 2001. The Feasibility Cost Sharing Agreement is scheduled to be executed in January 2003.

FY 2003 funds will be used to initiate the feasibility phase. FY 2004 funds will be used to continue the feasibility phase. The estimated cost of the feasibility phase is \$1,600,000, which is to be shared on a 50-50 basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,713,000
Reconnaissance Phase (Federal)	113,000
Feasibility Phase (Federal)	800,000
Feasibility Phase (Non-Federal)	800,000

The reconnaissance phase is scheduled for completion in January 2003. The feasibility phase for completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Little Kanawha River, WV Huntington District	600,000	75,000	TBD	65,000	TBD

The Little Kanawha River Basin occupies 2,300 square miles in northwestern West Virginia. The river rises in Upshur County, WV and flows in a northwesterly direction about 167 miles to Parkersburg, WV, where it empties into the Ohio River. Flood control in the Little Kanawha River basin was originally planned to be accomplished through the construction of three dams – Burnsville, West Fork and Leading Creek; however Burnsville was the only project ever completed. As a consequence, there remains a significant flooding history with recurring losses to lives and property. In recent years, there has been significant growth and development in Gilmer County located in the upper portion of the basin, and near Parkersburg, WV, in the lower end of the basin. In response to these concerns, a reconnaissance study and report was completed in September 2002 and is now being sent to HQUSACE for certification. The report indicates a Federal interest in several potential projects, including structural and non-structural flood control measures as well as environmental restoration and enhancement. The Gilmer County Commission has expressed a strong interest in becoming the lead sponsor for the follow-on feasibility study. The West Virginia Conservation Agency (WVCA), has also expressed an interest in financially sponsoring feasibility studies for the watershed.

FY 2003 funds are being used to complete the reconnaissance phase (including developing a Project Management Plan and negotiating a Feasibility Cost Sharing Agreement with the local sponsor) and, if the reconnaissance report is certified to be in accordance with policy, to continue into the feasibility phase. FY 2004 funds will be used to continue the feasibility phase of the study. The preliminary estimated cost of the feasibility phase is \$1,000,000, which is to be cost shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,100,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	500,000
Feasibility Phase (Non-Federal)	500,000

The reconnaissance phase is scheduled for completion in May 2003. The feasibility phase completion date is to be determined.

TOTAL: Flood Damage Prevention Studies 11,637,000 3,154,000 TBD 1,117,000 TBD

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
c. Shoreline Protection Studies	s – None.				
d. Special Studies.					
Indiana Harbor, IN Chicago District	3,100,000	775,600	TBD	150,000	TBD

The study area is located in northwest Indiana in the communities of Gary, East Chicago, and Hammond, Indiana. The study area covers 15.4 river miles, including the Indiana portion of the Grand Calumet River (with the exception of an area to be cleaned up by United States Steel) and the portions of the Lake George Canal and the Calumet Canal that are not part of the federal navigation channel. This area contains approximately two million cubic yards of bottom sediments that are highly contaminated with polynuclear aromatic hydrocarbons, metals (including lead and chromium), and PCB's (below the Toxic Substance Control Act level), causing it to be designated an Area of Concern in the Great Lakes Water Quality Agreement. The Grand Calumet River/Indiana Harbor is a high priority clean-up area for the Indiana Department of Environment Management (IDEM). Environmental dredging and habitat restoration of the area are the probable solutions for this project. The sponsor is the Indiana Department of Environmental Management and the Feasibility Cost Sharing Agreement is scheduled to be executed in May 2003.

FY 2003 funds will be used to initiate the feasibility phase of the study. The funds requested for Fiscal Year 2004 will be used to continue the feasibility phase of the study. The preliminary estimated cost of the feasibility phase is \$6,000,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of the study cost sharing is as follows:

Total Estimated Study Cost	\$6,100,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	3,000,000
Feasibility Phase (Non-Federal)	3,000,000

The reconnaissance phase is scheduled for completion in May 2003. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Metropolitan Region of Louisville, Jefferson County, KY Louisville District	850,000	100,000	TBD	200,000	TBD

The study area covers approximately 386 square miles and includes the metropolitan region of Louisville and extends over six counties in north central Kentucky (Jefferson, Oldham and Bullitt Counties) and south central Indiana (Clark, Floyd and Harrison Counties). The study area is drained by the Ohio River, Salt River, Pond Creek, Floyds Fork, Harrods Creek, Beargrass Creek, and Mill Creek in Kentucky, and Silver Creek in Indiana. Federally constructed projects in the area that have directly impacted the environment include the Louisville, Kentucky, Floodwall, the Southwest Jefferson County Levee and Floodwall, and McAlpine Locks and Dam. Most of Jefferson County was historically riparian, and there are many small waterways with floodplains and riparian corridors in varying states of degradation and development. In particular, the wall and levee systems of Louisville have blocked the natural Ohio River overflows, which naturally recharged wetland areas. The project will provide for significant restoration of habitat for endangered species, such as the gray and Indiana bats, and for locally threatened species such as the Louisville crayfish. Drainage and flood damage reduction efforts will be linked to restoration of natural floodplain values through the restoration of wetlands and riparian overbank areas, serving as flood water attenuation and storage areas. Habitat improvement measures, water control structures, moist soil management units, and reforestation will be analyzed. The Feasibility Cost Sharing Agreement with the Louisville and Jefferson County Metropolitan Sewer District (MSD) is scheduled to be executed in July 2003.

FY 2003 funds are being used to continue into the feasibility study efforts consisting of hydrologic and hydraulic analysis, economic analysis, and preliminary design of the alternatives. FY 2004 funds will be used to continue the feasibility study efforts. The estimated cost of the feasibility phase is \$1,500,000, which is cost shared on a 50-50 basis by Federal and non-Federal interests. Up to one-half of the non-Federal share may be in-kind services. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,600,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	750,000
Feasibility Phase (Non-Federal)	750,000

The reconnaissance phase is scheduled for completion in July 2003. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Buffalo River Environmental Dredging, NY Buffalo District	1,100,000	0	TBD	52,000	TBD

The Buffalo River and Harbor are located at the eastern end of Lake Erie, in Buffalo, NY. The Buffalo River has been identified as one of 43 Areas of Concern (AOCs) in the Great Lakes Basin. The purpose of this project is to remove or remediate contaminated sediments within the Buffalo River Area of Concern (AOC) for environmental restoration. Contaminated sediments adjacent to the Federal navigation channel eventually settle in the Federal navigation channel and are unsuitable for open lake disposal. Periodic maintenance of the Federal navigation project requires disposal of the contaminated sediments into a confined disposal facility (CDF) at considerable Federal expense. The reconnaissance report, funded under the Operation and Maintenance, General (O&M) appropriation, is scheduled for completion in FY 2003. This reconnaissance report addresses the use of Section 312 of Water Resources Development Act of 1990, as amended, which provides Environmental Dredging authorities for the removal of contaminated sediments adjacent to Federal Navigation projects. The reconnaissance study will recommend the preparation of a feasibility study to provide for additional sediment analyses, delineate areas for environmental dredging, develop project cost estimates/cost sharing, and assess the ability of the local sponsor to support the project. The reconnaissance study has identified the Friends of the Buffalo Niagara Rivers as the local sponsor for the feasibility study, and a Letter of Intent was received in December 2001. The feasibility report will select the alternative for addressing the contaminated sediments not suitable for open lake disposal, which will significantly reduce the future Federal cost of maintaining the navigation channel, restore beneficial use of the river, and allow for the implementation of ecosystem restoration authorities. The New York State Department of Environmental Conservation (NYSDEC) and the Buffalo River Remedial Action Plan (RAP) Committee support contaminated an interest in supporting e

Available funding in FY 2003 will be used to complete the Feasibility Cost Sharing Agreement. FY 2004 funds will be used to prepare the feasibility Project Management Plan. The preliminary estimated cost of the feasibility phase is \$2,200,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows.

Total Estimated Study Cost	\$2,200,000
Feasibility Phase (Federal)	1,100,000
Feasibility Phase (Non-Federal)	1,100,000

The reconnaissance phase is scheduled for completion in May 2003 (using \$160,000 of O&M funding). The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study		Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Onondaga Lake, NY Buffalo District	(Partnership)	9,995,000	1,868,000	TBD	307,000	TBD

Onondaga Lake, which is part of the New York State Barge Canal System and Oswego River Basin, has a total drainage area of 245 square miles, and a surface area of 4.6 square miles. The City of Syracuse is located along the south shore of the lake. Major tributaries to the lake are Onondaga Creek, Ninemile Creek, and Ley Creek. The major water resource problem associated with the lake is its degraded water quality. There has been a ban on swimming since the 1940s and fishing was banned on the lake in the 1970s. The poor water quality deters optimal use and economic growth of the surrounding area.

The purpose of the Onondaga Lake Project is to establish a partnership with other federal, state, and local agencies to develop and implement lake and watershed improvement projects. Section 573 of the Water Resources Development Act (WRDA) of 1999 authorized and directed the Secretary of the Army to form the Onondaga Lake Partnership (OLP) and to plan, design, and construct projects for the environmental restoration, conservation, and management of Onondaga Lake. The Assistant Secretary of the Army, Civil Works (ASA(CW)), granted delegated authority to the Buffalo District to carry out the Section 573 program, with certain exceptions. The partnership will terminate on August 17, 2014, unless the ASA(CW) and the Governor of New York agree otherwise, in writing, before August 17, 2014.

FY 2003 funds are being used to lead the OLP through chairmanship of the OLP Executive Committee, participation in all three OLP Standing Committees, leadership and coordination of the OLP Annual Progress Meeting, proactive and responsive project management and program leadership, world-class technical support that promotes credibility, teamwork and cooperation among Federal, State, and local governments, and other involved parties in the formulation of strategies and execution of numerous projects to address the environmental issues of Onondaga Lake and the Onondaga Lake watershed in Syracuse, New York.

FY 2004 funds will be used to continue OLP activities which include providing technical and outreach expertise, soliciting, scoping, scheduling, and cost-estimating future projects, tracking progress of existing projects, negotiating with potential sponsors, and investigating and overcoming legal, contractual, regulatory, and technical obstacles to improving Onondaga Lake and its watershed.

The completion date is to be determined.

Great Lakes and Ohio River Division

Study		Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Columbus Metropolitan Area, Lower Big Darby Creek Basin Environmental Restoration, OH Huntington District	(Hellbranch)	845,000	45,000	TBD	365,000	TBD

The study area encompasses the Hellbranch watershed of the Big Darby Creek Basin, located in the central part of Ohio within Franklin County. The Hellbranch watershed is approximately 26 miles in length and contains approximately 38 square miles. Big Darby Creek, including the Hellbranch, represents one of the most biologically diverse aquatic systems in the Midwest, supporting more than 100 species of fish and 38 species of mussels. The watershed provides habitat for 14 species classified by the state or Federal government as endangered and 98 species classified as threatened or potentially threatened. Stresses to the entire Darby ecosystem result primarily from agricultural and expanding urban development. Sediment, nutrient and chemical loading from agricultural fields and stormwater runoff from urbanizing areas represent the primary threats from an aquatic habitat and water quality perspective. Large intense pulses of water entering both the tributaries create threats from a hydrologic perspective. Such pulses can result in downstream flooding, the destabilization of stream banks, and the disruption of both streambed and riparian habitats. Possible solutions include wetland restoration, restoration of aquatic habitat, and hydrologic modeling that can be used as a management planning tool for evaluating future development. The reconnaissance report was certified to be in accord with policy in July 2000. The Franklin County Soil and Water Conservation District will act as the cost sharing sponsor with support from the Hellbranch Watershed Forum which includes members from the City of Columbus, Ohio Department of Natural Resources, Ohio Environmental Protection Agency, The Nature Conservancy, and various townships. A letter of intent was received from the Hellbranch Watershed Forum, dated May 14, 2002. The Feasibility Cost Sharing Agreement is scheduled for execution in March 2003.

FY 2003 funds will be used to initiate the feasibility phase. FY 2004 funds will be used to continue the feasibility study. The preliminary estimated cost of the feasibility phase is \$1,600,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,645,000
Reconnaissance Phase (Federal)	45,000
Feasibility Phase (Federal)	800,000
Feasibility Phase (Non-Federal)	800,000

The reconnaissance phase is scheduled for completion in January 2003. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Hocking River Basin Environmental Restoration, Monday Creek, OH Huntington District	556,000	396,000	120,000	40,000	0

The Monday Creek watershed of the Hocking River basin study area encompasses 116 square miles of Perry, Athens, and Hocking Counties, Ohio. The focus of the study for the Monday Creek watershed is environmental restoration. Extensive portions of the Monday Creek watershed have been subjected to underground and surface mining. Severe acid mine drainage and erosion from disturbed land areas have accelerated sedimentation in over 100 miles of area streams. A number of stream reaches are essentially sterile and unable to support diverse aquatic life. Communities affected within this environmentally degraded watershed are Nelsonville, Buchtel, Murray City, Carbon Hill, New Straightsville, Gore, Greendale, Maxville, and Bristol. The study is evaluating the applicability and feasibility of various restoration solutions to the overall degradation of the ecosystem. Environmental restoration activities include limited stream restoration, wetland creation and wildlife habitat restoration involving both active and passive treatment of acid mine drainage. The Ohio Department of Natural Resources, Division of Mines and Reclamation signed the Feasibility Cost Sharing Agreement for the project on April 27, 2000.

FY 2003 funds are being used to continue the feasibility phase of the study, including engineering design and analysis, completing the model study, completing the Environmental Assessment, conducting the Real Estate Gross Appraisal Report, and developing the Baseline Cost Estimate. FY 2004 funds will be used to complete the feasibility study. The estimated cost of the feasibility phase is \$1,012,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,062,000
Reconnaissance Phase (Federal)	50,000
Feasibility Phase (Federal)	506,000
Feasibility Phase (Non-Federal)	506,000

The reconnaissance phase was completed in April 2000. The feasibility phase is scheduled for completion in February 2004.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Mahoning River Environmental Dredging, OH Pittsburgh District	2,100,000	855,000	TBD	450,000	TBD

The Mahoning River Basin covers approximately 1,132 square miles in northeastern Ohio and west-central Pennsylvania. This feasibility study addresses the Ohio portion of the basin. More than 475,000 people live within the basin along the study reach in Trumbull and Mahoning Counties, Ohio. Local interests have requested comprehensive evaluations to remove and remediate contaminated sediments from the river. The studies are being conducted under the authority of Section 312 of the Water Resources Development Act of 1990, as amended, which provides for removal and remediation of contaminated sediments within navigable waters for the purpose of ecosystem restoration. The feasibility study will include approximately 31 miles of the Lower Mahoning River (Leavittsburg, OH, river mile 43.0 through Warren and Youngstown, OH, to the Ohio-Pennsylvania border at river mile 12.0). Deposition of uncontrolled industrial era residue from nine major Mahoning River valley steel plants, which lined the riverbanks throughout the lower 43-mile reach of the Mahoning River, has resulted in the degradation of the aquatic ecosystem and has become a threat to public safety and health as evident by the Ohio Department of Health, Human Health Advisory (HHA) issued in 1986 and typical for the Pennsylvania portion by the Pennsylvania Department of Environmental Protection - Public Health Advisory (PHA) 2001. The respective HHA and PHA consists of two warnings: (1) cautioning against contact with the sediments and (2) restrictions of fish consumption. This project will help to significantly restore over 31 miles of water and related land resources back to a baseline condition determined to be just upstream of the study reach at a USGS Gage Station (river mile 46.0) in Leavittsburg, OH. Possible solutions include: removal of in-river contaminated sediments; removal of in-river and riverbank contaminated sediments; a combination thereof; coupled with bioremediation of in situ contaminated sediments. The local communities throughout the study

The Feasibility Cost Sharing Agreement was executed in February 2002. Eastgate Regional Council of Governments, a state COG, is the local sponsor. FY 2003 funds are being used to continue the feasibility phase. FY 2004 funds will be used to continue the feasibility phase. The estimated cost of the feasibility phase is \$3,000,000, which is to be cost shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of the cost sharing is as follows:

Total Estimated Study Cost	\$3,600,000
Reconnaissance Phase (Federal)	600,000
Feasibility Phase (Federal)	1,500,000
Feasibility Phase (Non-Federal)	1,500,000

The reconnaissance phase was completed in February 2002. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Muskingum Basin System, Dillon Lake, OH Huntington District	686,000	140,000	189,000	357,000	0

The Muskingum River Basin occupies 8,051 square miles in east central Ohio, and comprises about 20 percent of the land area of the state. The river rises about 25 miles south of Lake Erie, flows in a southerly direction and empties into the Ohio River at Marietta, Ohio. The Muskingum River Lakes System includes 16 completed projects, regulating the runoff of a drainage area of 5,060 square miles, or 63 percent of the entire basin area. The original reservoir system, consisting of 14 projects, was completed in 1938 in cooperation with the Muskingum Watershed Conservancy District. Two more projects, Dillon Lake and North Branch of Kokosing Lake, were completed by the Corps in 1959 and 1972, respectively. The 14 original projects (now over 60 years old) are operated for flood control, recreation, and water conservation. The two newer projects are operated for flood control, general recreation, fish and wildlife conservation, and low flow augmentation. A reconnaissance study and report on the Muskingum River System was completed and certified to be in accord with policy in May 2001. The study focused on five major areas of concern: the flood control system, floodplain management, environmental restoration, recreation, and water supply. A number of potential projects were identified under each category. The feasibility study will address Dillon Lake. The environment of the upper reaches of the lake is significantly impacted by sedimentation, which has impaired and degraded the lake's fishery and aquatic habitat. In addition there are impacts to existing recreation facilities. The feasibility study will address alternatives primarily directed toward improving the sediment retention function of the lake, including enhancing the handling efficiency of arriving sediments, protection of wetlands, improving fishery, and creating additional wetlands for filtration of fine sediments. Basin-wide environmental restoration issues will also be addressed. Incidental benefits of the project would include enhanced aesthetics and i

FY 2003 funds will be used to continue the feasibility study including hydrologic modeling, environmental inventories and evaluation, and economic modeling. FY 2004 funds will be used to complete the feasibility study. The estimated cost of the feasibility phase is \$1,172,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,272,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	586,000
Feasibility Phase (Non-Federal)	586,000

The reconnaissance phase was completed in April 2002. The feasibility phase for Dillon Lake is scheduled for completion in September 2004.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
New River Basin, Claytor Lake State Park, VA Huntington District	558,000	33,000	TBD	130,000	TBD

Claytor Dam and Lake is a pump-storage hydropower project located near Radford, Virginia, about 30 miles upstream of the Corps' Bluestone Lake, on the New River. The project is owned and operated by American Electric Power. The 21 mile long, 4,500 acre lake has over 100 miles of shoreline and offers a variety of land and water recreational activities which are available to the general public, including hiking, camping, boating, fishing and water skiing. Stresses to the lake ecosystem have resulted primarily from agricultural and expanding urban development. Sediment, nutrient and chemical loading from agricultural fields and the storm water runoff from urbanizing areas represent the primary threats from an aquatic habitat and water quality perspective. Sedimentation is greatest along the inside of the relic river meander bends. In the most upstream areas of the lake, sedimentation has built "point bars" that are permanently exposed and vegetated by native herbaceous and woody emergent species. Immediately downstream, sedimentation has smothered benthic habitat, reduced water depths and fisheries habitat and increased boating hazards. Areas within the relic river meander bends could be dredged to create more stable and functioning bar forms. The created point bars in conjunction with a deeper and slightly more constricted flow area would provide a more self-sustaining channel thus reducing the hazards. This, in turn, will create approximately 20 to 25 acres of emergent wetlands, increasing water quality and providing fisheries and important avian habitat. The New River is an American Heritage River and is one of the most pristine and naturally significant stream systems in the eastern United States. The Virginia Department of Conservation and Recreation (VADCR) has expressed interest in participating as a non-Federal sponsor for this project and are preparing a letter of intent, which we anticipate receiving by March 2003. The potential sponsor is aware of the cost sharing responsibilities required for project d

FY 1999 funds were used to fully fund the New River Basin reconnaissance report at full Federal expense. The reconnaissance report was certified to be in accordance with policy on June 22, 2001. FY 2003 funds are being used to negotiate a Project Management Plan and a Feasibility Cost Sharing Agreement. FY 2004 funds will be used to continue into the feasibility phase of the study. The preliminary estimated cost of the feasibility phase is \$1,000,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,058,000
Reconnaissance Phase (Federal)	58,000
Feasibility Phase (Federal)	500,000
Feasibility Phase (Non-Federal)	500,000

The reconnaissance phase is scheduled for completion in October 2003. The feasibility study completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Powell River Watershed, VA Nashville District	1,477,000	1,143,000	137,000	197,000	0

The Powell River originates in southeast Virginia and flows southwest across the Tennessee border, where it empties into the Clinch River. Restoring the damaged portions of this unique ecosystem will benefit the eleven federally listed endangered mussel species and two threatened fish species. The Powell River Watershed Project Study Plan identified 12 contaminated creeks that contribute to the ecosystem degradation of the Powell River watershed. These creeks will be evaluated in three interim feasibility reports that will develop a watershed management plan containing potential corrective measures. The interim feasibility reports will evaluate measures which provide modification of hydrology or substrate by eliminating heavy metals in the water and increasing the pH level of the water to normal levels through use of active (filtration) and passive (weirs, impoundment and wetland creation) systems for restoration of the ecosystem. The Feasibility Cost Sharing Agreement was executed with the Lee-Norton-Wise-Scott-Planning District Commission (LENOWISCO) on July 20, 1998. The Ely and Puckett Creeks interim report was completed in May 2000. The interim report for Straight, Reeds, Jones, and Cox Creeks will be completed in June 2003. The interim report on Bundy Creek, Craborchard Creek, Pigeon Creek and Jordan Branch is scheduled for completion in September 2004.

FY 2003 funds will be used to complete the Straight, Reeds, Jones and Cox Creeks interim report and continue the Bundy Creek, Craborchard Creek, Pigeon Creek and Jordan Branch interim report. FY 2004 funds will be used to complete the feasibility study. The estimated cost of the feasibility phase is \$2,754,000, which is to be shared on a 50-50 basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$2,854,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	1,377,000
Feasibility Phase (Non-Federal)	1,377,000

The reconnaissance phase was completed in July 1998. The completion date for the feasibility study is September 2004.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Fox River Environmental Dredging, MI Detroit District	925,000	150,000	TBD	100,000	TBD

The study will investigate environmental dredging and other water related resource problems and needs on the Fox River and Green Bay Harbor located in northeastern Wisconsin. The study area encompasses the Lower Fox River which is defined as that 39-mile segment of the Fox River beginning at the mouth of Lake Winnebago, and terminating at the mouth of Green Bay. The ecosystem of the Fox River has been severely degraded in a number of locations by several factors. The primary source of degradation has been various industries discharging wastewater into the Fox River over a period of many years. The Fox River is contaminated with polychlorinated biphenyl (PCB), and the Wisconsin Department of Natural Resources (WDNR), Bureau of Watershed Management, is currently considering various cleanup options, which would involve environmental dredging. Preliminary evaluation by the WDNR estimates there are approximately 2,000,000 cubic yards of contaminated sediment within the Lower Fox River system to be addressed under the study. The WDNR's feasibility study report is expected to be completed in 2003. The Corps will use the results obtained by the WDNR to formulate the study scope of work. Future partnerships between Federal, State, and local interests will need to address responsibilities of cleanup and the process needed to effectively remove the contaminated sediments. Removal of the contaminated sediments will substantially improve water quality. Improved water quality will lead to restoration of the habitat for fish and wildlife, characterized by healthier benthic communities and improved vegetation for food and refuge. Improved water quality would also lead to reduced taste and odor problems in the water and in fish. Significant economic benefits would come from the municipal and industrial water improvements and the increased recreational opportunities. A Feasibility Cost Sharing Agreement was signed on September 27, 2002. The Wisconsin Department of Natural Resources is the non-Federal sponsor.

FY 2003 funds are being used to continue the feasibility phase of the study. FY 2004 funds will be used to continue the feasibility study. The estimated cost of the feasibility phase is \$1,600,000, which is to be cost-shared on a 50-50 percent basis between Federal and non-Federal interests. Up to one half of the non-Federal share may be in-kind services. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$1,725,000
Reconnaissance Phase (Federal)	125,000
Feasibility Phase (Federal)	800,000
Feasibility Phase (Non-Federal)	800,000

The reconnaissance phase was completed in June 2001. The feasibility phase completion date is to be determined.

Great Lakes and Ohio River Division

Study	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
TOTAL: Special Studies.	22,192,000	5,506,000	TBD	2,348,000	TBD
TOTAL SURVEYS – CONTINUING	91,129,000	55,160,000	TBD	5,555,000	TBD
TOTAL SURVEYS – NEW & CONTINUING	91,129,000	55,160,000	TBD	5,555,000	TBD

- 3. PRECONSTRUCTION ENGINEERING AND DESIGN ACTIVITIES (PED) NEW: None.
- 4. PRECONSTRUCTION ENGINEERING AND DESIGN ACTIVITIES (PED) CONTINUING:
 - a. Navigation.

Great Lakes and Ohio River Division

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Project	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
Greenup Locks and Dam, Ohio River, KY and OH Huntington District	7,360,000	3,371,000	1,094,000	2,895,000	0

Greenup Locks and Dam project is located on the left descending bank of the Ohio River near Greenup, KY, 341.0 miles downstream of Pittsburgh, PA. The existing project consists of a non-navigable, high-lift gated dam with a top length of 1,287 feet and two parallel lock chambers. The main lock chamber is 110' X 1200' and the auxiliary lock is 110' X 600'; both chambers were put into service in 1959. Current traffic projections indicate that by the year 2010, tonnage at the Greenup project will exceed the effective capacity of the main lock, so that the auxiliary lock will be regularly required to process traffic. At this point, closure of the main lock, for maintenance or in the event of an accident, will generate massive delays and associated increased costs to industry. Additional lock capacity will be required or the delay experience of 1999 will become more likely and lengthier as these locks age. Industry costs associated with these closures will grow. The feasibility report was completed in April 2000, and recommended an extension of the existing 600' lock to 1200' and major rehabilitation of the existing 1200' lock as the most effective means of meeting the navigation needs at Greenup Locks and Dam. The project cost is \$241,300,000 (October 2000 price level, fully funded), which includes the major rehabilitation of the main lock, with average annual benefits of \$26,500,000. In accordance with the cost sharing and financing concepts in the Water Resources Development Act of 1986, 50 percent of the construction cost would be derived from the Inland Waterways Trust Fund. The benefit to cost ratio is 2.5 to 1 based on the April 2000 economic analysis and current first costs (6-5/8 percent Federal Discount Rate). This project enjoys the support of regional and national waterway interests, especially towing companies.

Total Estimated Preconstruction		Total Estimated Preconstruction	
Engineering and Design Costs	7,360,000	Engineering and Design Costs	7,360,000
Initial Federal Share	7,360,000	Ultimate Federal Share	7,360,000
Initial Non-Federal Share	0	Ultimate Non-Federal Share	0

The recommended project was authorized for construction by the Water Resources Development Act of 2000. FY 2003 funds will be used to continue Preconstruction Engineering and Design (PED) consisting mainly of completion of plans and specifications for the mooring cells (which would allow award of the first construction contract) and continuation of the design documentation report for the lock extension. FY 2004 funds will be used for completion of PED in September 2004, consisting mainly of initiation of plans and specifications for the dry dock facility, continuation of the design documentation report for the lock extension and initiation of mitigation model studies.

TOTAL: Navigation 7,360,000 3,371,000 1,094,000 2,895,000 0

b. Flood Control – None.

Great Lakes and Ohio River Division

Project	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
c. Watershed/Ecosystem.					
Ashtabula River Environmental Dredging, OH	1,325,000	525,000	TBD	250,000	TBD

The Ashtabula River is located along the southern shore of Lake Erie, approximately 150 miles west of Buffalo, New York, and 55 miles east of Cleveland, Ohio. Upstream of the 5th Street Bridge, maintenance of the Federal channel has been limited due to the presence of contaminants in the sediment and the lack of appropriate disposal facilities. This reach of the channel was last dredged in 1993. Contaminated sediments are moving downstream, into the Federal channel below the 5th Street Bridge. Presently, only the sediments located lakeward of a line midway between the Bridge and the mouth of the river are suitable for open lake disposal. The primary contaminants of concern are Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, heavy metals and low-level radionuclides. In 1994, representatives of government, industry, and the local community formed the Ashtabula River Partnership (ARP) to address restoration of the impaired beneficial uses caused by contaminated sediments within the river and harbor area. Remediation of a source of the contamination (a tributary to the river) was completed in 2002 under Superfund authority. The purpose of this project is to remove and confine contaminated sediments from the Ashtabula River that are significantly impairing the aquatic ecosystem and constraining beneficial use of existing facilities in the Ashtabula River and Harbor. Downstream of the 5th Street Bridge, 115,000 cubic yards of sediment will be dredged and disposed of using Operation and Maintenance, General (O&M) funding in accordance with Section 312(a) of the Water Resources Development Act (WRDA) of 1990. Upstream of the 5th Street Bridge, 581,000 cubic yards of sediment will be dredged and disposed under the authority of Section 312(b) of WRDA 1990. Public and agency coordination of the final feasibility report, known as the Comprehensive Management Plan and Environmental Impact Statement was completed in January 2002. ASA(CW) signature on the Record of Decision is expected by March 2003. The Preconstruction Engineering and Design (PED) Design Agreement was executed on December 21, 2001. The Ashtabula (City) Port Authority is the non-Federal sponsor. The project is cost shared in accordance with the provisions of the WRDA 1999, Section 224. While Preconstruction Engineering and Design (PED) is funded 75% Federal and 25% non-Federal, the actual cost of PED will be cost shared at the same ratio as construction, 65% Federal and 35% non-Federal

Total Estimated Preconstruction		Total Estimated Preconstruction	
Engineering and Design Costs	1,767,000	Engineering and Design Costs	1,767,000
Initial Federal Share	1,325,000	Ultimate Federal Share	1,150,000
Initial Non-Federal Share	442,000	Ultimate Non-Federal Share	617,000

FY 2003 funds are being used to draft the Project Cooperation Agreement and to continue PED, consisting of detailed designs for sediment dredging, dewatering, transfer, landfill disposal, and water treatment facilities. FY 2004 funds will be used to continue PED, including detailed design and preparation of plans and specifications. The PED completion date is to be determined.

Great Lakes and Ohio River Division

Project	Total Estimated Federal Cost \$	Allocation Prior to FY 2003 \$	Allocation FY 2003 \$	Tentative Allocation FY 2004 \$	Additional to Complete After FY 2004 \$
TOTAL: Watershed/Ecosystem	1,325,000	525,000	TBD	250,000	TBD
TOTAL PED - CONTINUING	8,685,000	3,896,000	TBD	3,145,000	TBD
TOTAL PED - NEW & CONTINUING	8,685,000	3,896,000	TBD	3,145,000	TBD
GRAND TOTAL - SURVEYS & PED	99,814,000	59,056,000	TBD	8,700,000	TBD

APPROPRIATION TITLE: Construction, General - Locks and Dams (Navigation)

PROJECT: Olmsted Locks and Dam, Illinois and Kentucky (Continuing)

LOCATION: The project is located in Pulaski County, Illinois, and Ballard County, Kentucky, on the Ohio River near Olmsted, Illinois, approximately 964 miles downstream from Pittsburgh, Pennsylvania.

DESCRIPTION: The project will replace Ohio River Locks and Dams 52 and 53. The new structure will consist of two 110' by 1200' locks adjacent to the Illinois shore and a dam comprised of tainter gates, navigable pass, and a fixed weir. All work is programmed.

AUTHORIZATION: Water Resources Development Act of 1988.

REMAINING BENEFIT-REMAINING COST RATIO: 11.8 at 8 7/8 percent.

TOTAL BENEFIT-COST RATIO: 3.4 at 8 7/8 percent.

INITIAL BENEFIT-COST RATIO: 3.7 at 8 7/8 percent (FY 1991).

BASIS OF BENEFIT-COST RATIO: Benefits are based on the Olmsted Locks and Dam Benefit Update, dated October, 1990.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	COMPLETION SCHEDULE
Estimated Federal Cost General Appropriations	540,000,000	\$ 1,080,000,000	Entire Project	54	TBD
Inland Waterways Trust Fund	540,000,000			PHYSICAL DATA	4
Estimated Non-Federal Cost		0	Lock - 110 by 1,20	00 foot Chambers	2
			Dam - Navigable F	Pass	1,400 ft.
Total Estimated Project Cost		\$ 1,080,000,000	Fixed Weir		561 ft.
·			Tainter Gates		744 ft.
			Acres – Dam		123 acres
			Road		21 acres
			Disposal Area		114 acres
			Flow Easements		35 acres

Division: Great Lakes & Ohio River District: Louisville Olmsted Lock and Dam, IL & KY

3 February 2003

DHACION

SUMMARIZED FINANCIAL DATA (Continued)	GENERAL APPNS.	INLAND WATERWAYS TRUST FUNDS	ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September 2002	\$ 285,312,500	\$ 285,312,500	
Conference Allowance for FY 2003	TBD	TBD	
Allocation for FY 2003	TBD	TBD	
Allocations through FY 2003	TBD	TBD	TBD
Allocation Requested for FY 2004	36,500,000	36,500,000	TBD
Programmed Balance to Complete after FY 2004	TBD	TBD	
Unprogrammed Balance to Complete after FY 2004	0	0	

JUSTIFICATION: The project is in a strategic location on the inland waterway system. Virtually all waterway traffic moving between the Ohio River and tributaries and the Mississippi River and tributaries passes through the project area. Olmsted Locks and Dam will replace existing Ohio River Locks and Dams 52 and 53, which are over 70 years old. Both projects have temporary lock chambers that are inefficient and neither project conforms to current design criteria for structural stability. Commercial navigation in 1999 was 95 million tons through Lock 52 and 88 million tons through Lock 53. Historically, tonnage growth has been steady and is expected to continue in the long term. The long term (2010-2030) average annual growth rate is projected to be 0.8 percent. The value of the commodities through the project area in 1999 was estimated at \$20 billion. Energy-related commodities comprised approximately 38 percent of the total tonnage, with grains and chemicals each contributing approximately 11 and 10 percent, respectively, of total tonnage. The projected increases in waterway traffic demands in combination with the limited capacity of the existing locks will result in increased lockage delays, costing the industry \$554 million on an annual basis.

The following counties qualify as areas of "substantial and persistent" unemployment: Illinois - Alexander, Johnson, Massac, Pope, Pulaski, and Union; Kentucky - Ballard, Carlisle, Graves, Livingston, and Marshall.

Average annual benefits are as follows:

Annual Benefits	Amount
Navigation	\$ 526,253,000
Employment	837,000
Cost Reduction	27,334,000
Total	\$ 554.424.000

Division: Great Lakes & Ohio River District: Louisville Olmsted Lock and Dam, IL & KY

3 February 2003

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Real Estate Activities	160,000
Continue Bulkhead Construction	4,108,000
Continue Dam Construction	55,396,000
Continue Gate Storage Facility	3,848,000
Initiate Service Mounds Buildings & Grounds	2,522,000
Cultural Resources	40,000
Continue Mussel Monitoring	400,000
Planning, Engineering, and Design	1,600,000
Construction Management	4,806,000
Lock Operation during Construction	120,000
Total	\$ 73,000,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, 50% of the total cost of construction will be derived from the Inland Waterways Trust Fund.

STATUS OF LOCAL COOPERATION: None required.

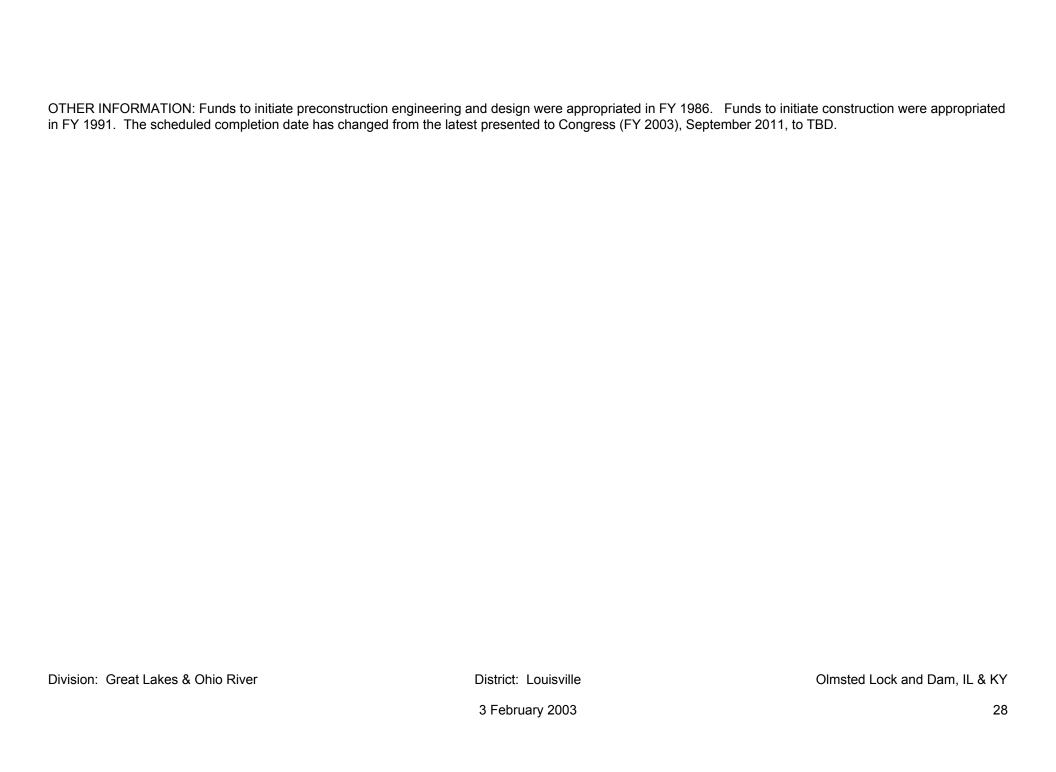
COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$1,080,000,000 is an increase of \$20,000,000 from the latest estimate (\$1,060,000,000) presented to Congress (FY 2003). The change includes the following items.

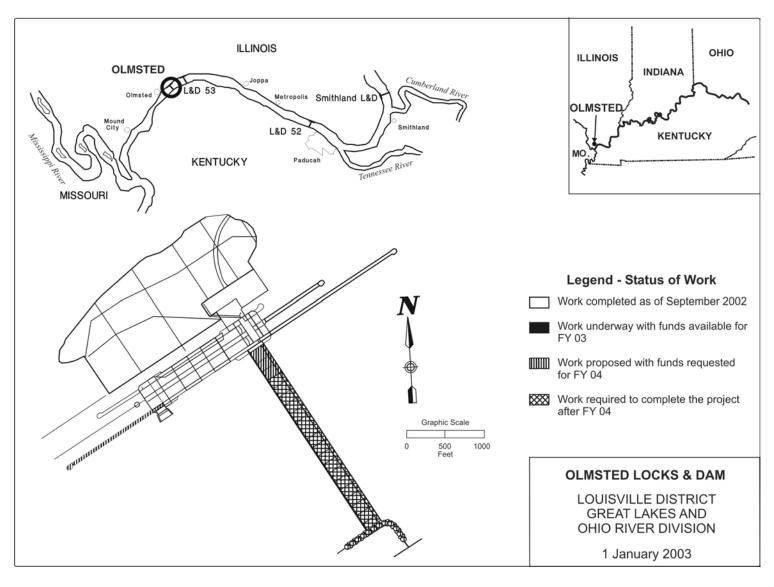
Item	Amount
Design Changes (River Dikes) Price Escalation on Construction Features	\$ 14,000,000 6,000,000
Total	\$ 20,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: A final Environmental Impact Statement (EIS) was filed with the Environmental Protection Agency on April 4, 1986. Due to project changes, a Draft Supplemental EIS was filed in November 1991. The Final Supplement to the EIS was filed on March 26, 1993, and the Record Of Decision was signed on May 5, 1993.

Division: Great Lakes & Ohio River District: Louisville Olmsted Lock and Dam, IL & KY

3 February 2003





Division: Great Lakes & Ohio River District: Louisville Olmsted Lock and Dam, IL & KY

3 February 2003

APROPRIATION TITLE: Construction, General – Channel and Harbor (Navigation)

PROJECT: Indiana Harbor and Canal, Confined Disposal Facility, Indiana (Continuing)

LOCATION: The project is located on the southwestern shore of Lake Michigan within the City of East Chicago, Lake County, Indiana, 4-1/2 miles east of the Indiana-Illinois state line and 17 miles from downtown Chicago, Illinois.

DESCRIPTION: Indiana Harbor and Canal (IHC) is an authorized Federal navigation project with an entrance channel and outer harbor protected by breakwaters, and an inner harbor which includes the Indiana Harbor Canal and its two branches, the Lake George Branch, which extends west for a distance of 6,800 feet, and the Calumet River Branch which extends south for about 2 miles where it joins the Grand Calumet River. A 4.8 million cubic yards capacity Confined Disposal Facility (CDF) will be constructed on the 164 acres of land adjacent to the Lake George Branch of the IHC, formerly occupied by an oil refinery owned by the Atlantic Richfield Company now a subsidiary of British Petroleum America, Incorporation and subsequently acquired by Energy Cooperative Incorporated (ECI). The ECI property, which currently has open Resource Conservation and Recovery Act (RCRA) status, was transferred to the current local sponsor, the East Chicago Waterway Management District (ECWMD) in 1994. Use of this site for the CDF is contingent upon the construction of specific RCRA closure and corrective action features which will be integral aspects of the CDF construction. The elements of the CDF include construction of dikes; a hydraulic gradient control system which includes monitoring and extraction wells and a subsurface cutoff wall; an on-site effluent treatment plant; a rehandling area and air monitoring.

AUTHORIZATION: River and Harbor Acts of 1910 and 1960.

REMAINING BENEFIT - REMAINING COST RATIO: 3.0 to 1 at 7 3/8 percent.

TOTAL BENEFIT-COST RATIO: 3.0 to 1 at 7 3/8 percent.

INITIAL BENEFIT-COST RATIO: 3.0 to 1 at 7 3/8 percent (FY 1999)

BASIS OF BENEFIT COST RATIO: Benefits are from the Final Comprehensive Management Plan, Indiana Harbor and Canal Maintenance Dredging and Disposal Activities, dated January 1999 at October 1997 price levels.

Division: Great Lakes & Ohio River District: Chicago Indiana Harbor and Canal, Confined Disposal Facility, IN

SUMMARIZED FINANCIAL DATA		ACCUM PCT. OF EST FED. COST		ATUS: AN 2003)	PERCE COMPLI		PHYSICAL COMPLETION SCHEDULE
Estimated Total Appropriation Requirement	\$ 73,000,000		Entire Pro	oject	3		TBD
Future Non-Federal Reimbursement	\$ 9,000,000		PHYSICAL DATA				
Estimated Federal Cost (Ultimate) Estimated Non-Federal Cost Cash Contributions Other Costs Reimbursements	64,000,000 61,000,000			Dikes RCRA Cap Rehandling Are Effluent Treatm Cutoff Wall		13,000 948,000 1 1 341,715	cu. yds.
Total Estimated Programmed Project Cost Total Estimated Unprogrammed Project Cost	125,000,000 0						
Total Estimated Project Cost	\$ 125,000,000						
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$ 9,119,000 TBD TBD TBD						
Allocation Requested for FY 2004 Programmed Balance to Complete After FY Unprogrammed Balance to Complete after F	5,700,000 TBD 0						

JUSTIFICATION: Indiana Harbor received over 15 million tons of waterborne commerce in 1990, second only to the Port of Chicago in tonnage received on Lake Michigan. The ISG Company, Ispat Inland Steel Company, U.S. Gypsum Company, Safety-Kleen Company and the Amoco Oil Company are the primary users of the Indiana Harbor and Canal. Ispat Inland Steel Company, one of the largest steel manufacturers in the United States, is the largest user of the harbor.

Division: Great Lakes & Ohio River District: Chicago Indiana Harbor and Canal, Confined Disposal Facility, IN

JUSTIFICATION (continued):

There is an estimated 1 million cubic yards backlog of maintenance dredging at the Indiana Harbor and Canal. The resulting inadequate channel depths are causing deep-draft vessels to plow through sediments at various locations, pushing them into berthing areas and other areas located along dock faces outside of the Federal channel. In addition, ships come into the harbor loaded at less than optimum vessel drafts. There is also a problem due to restricted use of various docks and double handling of bulk commodities as a result of inadequate channel depths. These problems are causing increased transportation costs of waterborne commerce at this navigation project, estimated at \$15.9 million annually. These additional costs are estimated to increase to \$21.7 million by the year 2031. Ships trading into Indiana Harbor forfeit as much as 16 inches of draft, or more than 4,300 tons of cargo each arrival.

The Indiana Harbor and Canal navigation project and the Grand Calumet River region have been identified as one of the 43 Great Lakes Areas of Concern by the International Joint Commission primarily due to the quality of the watercourse sediments. Polluted sediments are continually put into suspension due to propeller action of commercial ships. Major storm events flush polluted sediments from the harbor into Lake Michigan. It is estimated that between 100,000 and 200,000 cubic yards of polluted sediment are being discharged from the harbor into the lake annually. The annual sediment load to the lake contains an estimated 67,000 pounds of chromium, 100,000 pounds of lead and 420 pounds of PCB's. Adverse impacts can be detected and measured for a distance of more than 5 miles from the harbor entrance, affecting water supply intakes, sport fishing and recreational areas. Dredging will remove approximately 4.8 million cubic yards of contaminated sediments from the ambient environment in Northwest Indiana and will partially mitigate the currently unrestricted migration of these polluted materials into the near shore areas of Lake Michigan.

The Indiana Harbor and Canal navigation project has not been dredged since 1972. The United States Environmental Protection Agency determined that disposal in Lake Michigan was no longer acceptable due to the polluted character of the dredged material, nor are they suitable for unconfined upland disposal or beneficial use. Therefore, a confined disposal facility must be constructed before maintenance dredging of the Federal channel can commence.

The total average annual benefits are \$14,333,000, all for navigation.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Construction of Channel Obstructions	\$2,000,000
Continue Construction of Collection Trench	700,000
Complete Construction of Cutoff Wall	1,000,000
Engineering & Design	1,700,000
Construction Management	300,000

Total \$5,700,000

Division: Great Lakes & Ohio River District: Chicago Indiana Harbor and Canal, Confined Disposal Facility, IN

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts contained in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payment During Construction and Reimbursements	Annual Operation, Maintenance, Repair Rehabilitation, and Replacement Costs
Pay 25 percent of the costs allocated to general navigation facilities during construction.	24,000,000	
Reimburse an additional 10 percent of the costs of general navigation facilities allocated to commercial navigation within a period of 30 years following completion of construction, as partially reduced by a credit allowed for the value of lands, easements, rights of way, and relocations, allocated to general navigation facilities.	9,000,000	
Pay 100 percent of the construction costs allocated to the local service facilities (berthing areas) and 100 percent of operations and maintenance costs allocated to the local service facilities.	26,400,000	370,000
Provide lands, easements, rights of way, and borrow areas.	50,000	
Modify or relocate utilities, roads, bridges (except existing bridges over, Navigable waters) and other facilities, where necessary for the construction of the project.	1,550,000	
Total Non-Federal	\$61,000,000	\$370,000

The non-Federal sponsor has agreed to make all payments required concurrently with construction and to make all required reimbursements within a period of 30 years following completion of construction.

Division: Great Lakes & Ohio River District: Chicago Indiana Harbor and Canal, Confined Disposal Facility, IN

STATUS OF LOCAL COOPERATION: The East Chicago Waterway Management District is the local sponsor. The Project Cooperation Agreement was executed on 7 August 2000.

The non-Federal cost estimate of \$61,000,000 which includes a cash contribution of \$50,400,000, has changed from the non-Federal cost estimate of \$56,900,000 which includes a cash contribution of \$47,300,000, as noted in the PCA. The non-Federal required reimbursements, in the amount of \$9,000,000, will be repaid within a period of 30 years following completion of construction. The non-Federal sponsor is financially capable and willing to contribute the non-Federal share.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate (ultimate) of \$64,000,000 is a decrease of \$4,000,000 from the last estimate presented to Congress of \$68,000,000 (FY 2003).

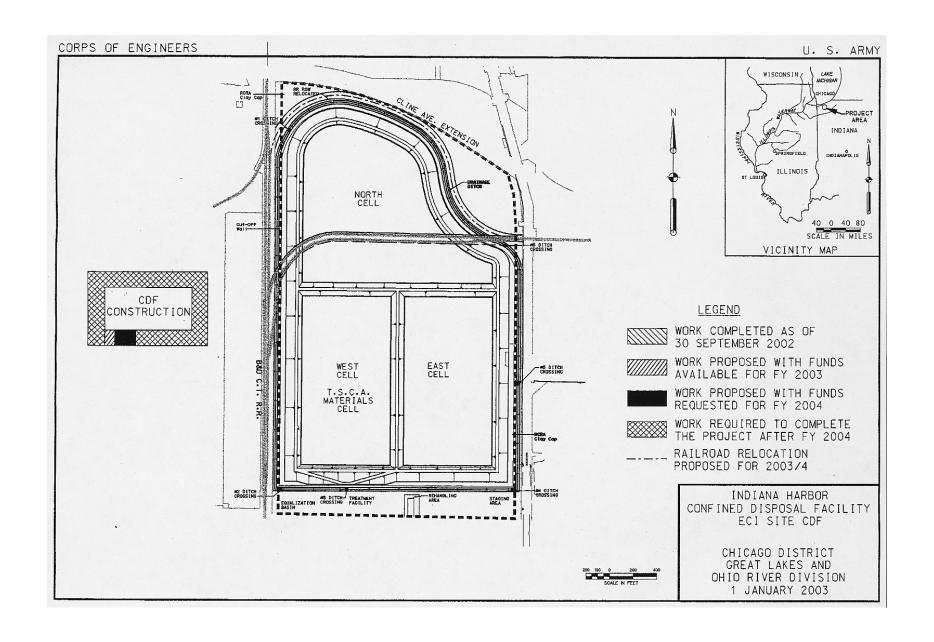
Item	Amount
Post Contract Award and other estimated adjustments	\$ (4,000,000)
Total	\$ (4,000,000)

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: Public and Agency review of final Environmental Impact Statement and the Comprehensive Management Plan were completed in November 1998. The Record of Decision for the FEIS for the entire project was signed February 2, 1999.

OTHER INFORMATION: Initial construction funds were appropriated in FY 1999. The Comprehensive Management Plan, Indiana Harbor and Canal Maintenance Dredging and Disposal Activities, dated January 1999, was completed with Operation and Maintenance funds. The East Chicago Waterway Management District, the local project sponsor, has received letters of intent from the Ispat Inland Steel and LTV Steel companies to participate with the local sponsor as users of the confined disposal facility project.

The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2006, to TBD.

Division: Great Lakes & Ohio River District: Chicago Indiana Harbor and Canal, Confined Disposal Facility, IN



3 February 2003

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APPROPRIATION TITLE: Construction General - Locks & Dams (Navigation)

PROJECT: Kentucky Lock and Dam, Tennessee River, Kentucky

LOCATION: The project is located on the Tennessee River at Mile 22.4 near Grand Rivers, Kentucky.

DESCRIPTION: The modernization of the existing facility will include the addition of a 110-foot x 1200-foot lock landward and adjacent to the existing 110-foot x 600-foot lock, and the relocation of an existing railroad, highway, and powerhouse access road. The railroad and highway will be relocated downstream of the new lock's lower gates and will require the construction of new bridges across the river. The powerhouse access road will be relocated from the east bank to the west bank and will require the construction of a new ramp.

AUTHORIZATION: The Water Resources Development Act of 1996.

REMAINING BENEFIT-REMAINING COST RATIO: 2.7 at 7 5/8 percent.

TOTAL BENEFIT-COST RATIO: 2.0 at 7 5/8 percent.

INITIAL BENEFIT-COST RATIO: 2.4 at 7 5/8 percent (FY 1998).

BASIS OF BENEFIT COST RATIO: Benefits are based on the Limited Reevaluation Report approved in November 1995 and costs are based on the Innovated Design/Cost Reduction Studies completed in June 1995.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION
Estimated Federal Cost Construction General	326,000,000	\$652,000,000	,		SCHEDULE
Inland Waterways Trust Fund	326,000,000		Entire Project	14	TBD
Total Estimated Project Cost		\$652,000,000	PHY	SICAL DATA	

Lock Chamber (New) 110 ft. x 1200 ft.

Bridges

Railroad (New) 3100 ft.

Highway (New) 3100 ft.

Division: Great Lakes & Ohio River District: Nashville Kentucky Lock and Dam, Tennessee River, KY

SUMMARIZED FINANCIAL DATA (Continued)

	CONSTRUCTION GENERAL	INLAND WATERWAYS TRUST FUND	ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$ 44,371,000 TBD TBD TBD	\$44,371,000 TBD TBD TBD	TBD
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004	12,433,000 TBD 0	12,433,000 TBD 0	TBD

JUSTIFICATION: The existing 110-foot x 600-foot Kentucky Lock is too small to handle a modern 15-barge tow without two lockages. This greatly increases the processing time resulting in Kentucky Lock having one of the highest transit times on the inland waterway system. Delays at the lock averaged over 4 hours per tow in 2001. System traffic is expected to grow annually from the 38 million tons recorded in 2000 to an estimated 77 million tons in 2050 resulting in a 38.4 hour average delay per tow. The addition of a new 1200-foot lock will greatly reduce these delays and generate \$55.1 million in average annual benefits to the nation as a result of reduced cost to transport commodities through the system.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Highway/Railroad Relocation	14,500,000
Continue Lock Construction	3,750,000
Planning, Engineering, and Design	5,339,000
Construction Management	1,277,000
Total	\$24,866,000

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, 50 percent of the total cost for the project will be derived from the Inland Waterways Trust Fund.

STATUS OF LOCAL COOPERATION: None required.

Division: Great Lakes & Ohio River District: Nashville Kentucky Lock and Dam, Tennessee River, KY

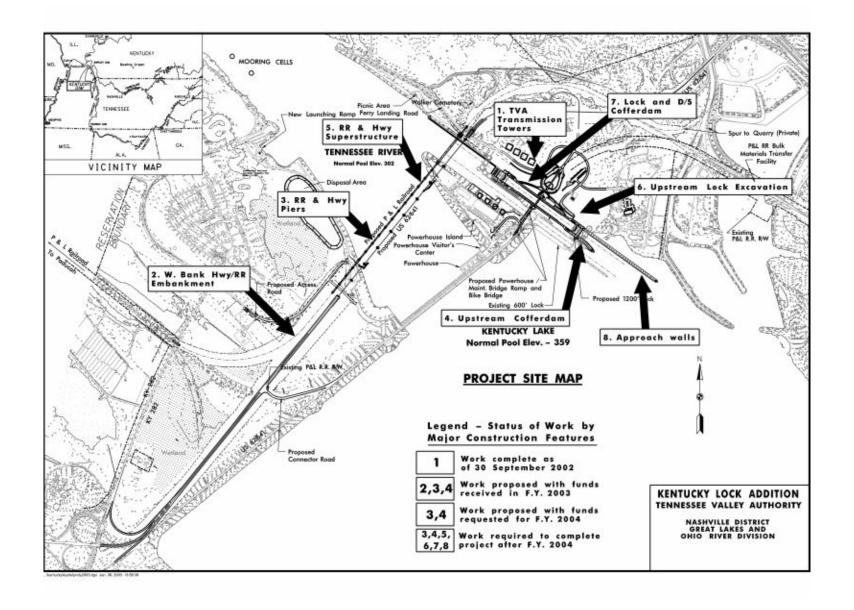
COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$652,000,000 is an increase of \$119,000,000 from the latest estimate (\$533,000,000) presented to Congress (FY 2003). The change includes the following items.

Item	Amount
Price Level Updating and Inflation Design Changes to Highway/Railroad/Tower Relocation Decrease for Lock Design Changes Increase for Engineering & Design Activities Post Contact Award and Other Estimating Changes	36,400,000 62,900,000 (10,600,000) 27,500,000 2,800,000
Total	\$119,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Impact Statement was included in the Final Feasibility Report and the Record of Decision was signed on 26 March 1998. A supplemental Environmental Impact Statement to address relocation feature changes and design refinements identified subsequent to the original report and Environmental Impact Statement was completed in 2001 and the Record of Decision was signed on 20 July 2001.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1993. Funds to initiate construction were appropriated in FY 1998. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2010, to TBD.

Division: Great Lakes & Ohio River District: Nashville Kentucky Lock and Dam, Tennessee River, KY



3 February 2003

39

PROJECT: McAlpine Locks and Dam, Kentucky and Indiana (Continuing)

LOCATION: The project is located on the Ohio River at Louisville, Jefferson County, Kentucky, Ohio River mile 604.0 to 608.0.

DESCRIPTION: The modernization of the existing facility will replace a 600-foot auxiliary lock chamber and an inactive 360-foot 2-stage chamber with a 1,200-foot lock on the Kentucky bank side of the existing lock and dam. This effort will result in twin 1,200-foot locks for tow traffic. Construction of a new bridge is required to continue access to Shippingport Island and the Louisville Gas & Electric hydroelectric power facility.

AUTHORIZATION: The Water Resources Development Act of 1990.

REMAINING BENEFIT-REMAINING COST RATIO: 2.3 to 1 at 8 percent.

TOTAL BENEFIT-COST RATIO: 1.7 to 1 at 8 percent.

INITIAL BENEFIT-COST RATIO: 1.8 to 1 at 8 percent (FY 1996).

BASIS OF BENEFIT-COST RATIO: Benefits are based on the General Design Memorandum, Project Economic Update approved in March 1994, at 1994 price levels.

Division: Great Lakes & Ohio River District: Louisville McAlpine Locks and Dams, KY and IN

SUMMARIZED FINANCIAL DATA				STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost General Appropriations Inland Waterways Trust Fund	169,000,000 169,000,000	\$ 338,000,000		Entire Project	25 PHYSICAL DA	TBD ATA
Estimated Non-Federal Cost		0		Wharf Extension		35,400 sf 6,100 sf
Total Estimated Project Cost		\$ 338,000,000		Boat Mooring I Fixed Bridge Lock Chamber Buildings:	•	2,100 st 2,100 ft 110 by 1,200 ft
				Resident E Operations		6,100 sf 2,300 sf
				Storage		5,100 sf
		GENERAL APPNS	INLAND WATERWAYS TRUST FUND		OF EST.	
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003		\$ 41,410,000 TBD TBD	\$ 41,410,000 TBD TBD			
Allocations through FY 2003		TBD	TBD	TB	SD.	
Allocation Requested for FY 2004 Programmed Balance to Complete aff Unprogrammed Balance to Complete		13,050,000 TBD 0	13,050,000 TBD 0	ТВ	D	

Division: Great Lakes & Ohio River District: Louisville McAlpine Locks and Dams, KY and IN

JUSTIFICATION: The existing navigation locks are on the Kentucky side of the river. They consist of a 110 by 1,200 foot main lock that was placed in operation in 1961 and two auxiliary locks that were completed in 1930 (110 by 600 foot) and 1921 (56 by 360 foot, closed since 1971). The modernization of the existing facility will replace the existing auxiliary locks with a new 110 by 1,200 foot lock. The new lock is in response to identified annual increases in tonnage levels and delays. Tonnages through the McAlpine Locks are expected to grow annually from the 1993 figure of 63.2 million tons to 127 million tons in 2060. About 40 percent of current traffic is coal. Currently, the average delay is 0.8 hours per tow. With the existing project, by the year 2060, the average delay is projected to be 40 hours per tow. With the lock addition, the average delay is projected to be 1.5 hours per tow. Other project components include a fixed bridge spanning 2,100 feet, including 840 feet of embankment, and three one-story buildings for offices, service, and storage, an industrial wharf for miter gate erection and storage, and a boat mooring facility for small workboats. Construction of the 1,200 foot lock on an efficient schedule is imperative to minimize the risks associated with operating on one lock until the new lock is operational.

Average annual navigation benefits are \$41,621,800, from reduced navigational delays.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Lock Construction	21,872,000
Continue Bridge Construction	1,700,000
Planning, Engineering, and Design	385,000
Construction Management	2,143,000

Total \$ 26,100,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, 50 percent of the total cost of construction will be derived from the Inland Waterways Trust Fund.

STATUS OF LOCAL COOPERATION: None required.

Division: Great Lakes & Ohio River District: Louisville McAlpine Locks and Dams, KY and IN

3 February 2003

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$338,000,000 is an increase of \$60,000,000 from the latest estimate (\$278,000,000) presented to Congress (FY 2003). The change includes the following items:

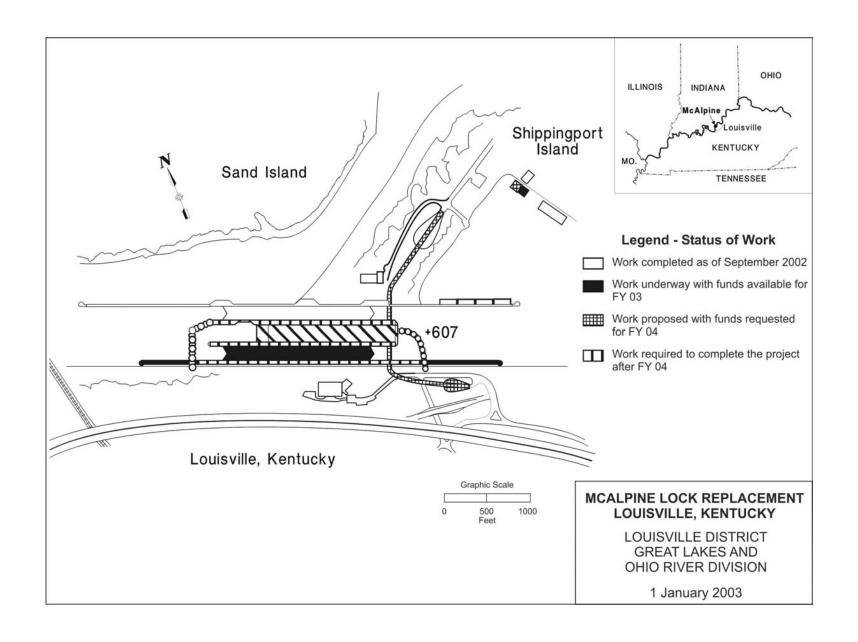
Item	Amount
Post contract award and other estimating adjustments	\$ 46,000,000
Price Escalation on Construction Features	14,000,000
Total	\$ 60,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Assessment (EA) and a Finding of No Significant Impacts (FONSI) have been signed and included in the Final Feasibility Report. In addition, a Section 404 (b) (1) Evaluation has been completed and 401 Water Quality Certification has been obtained from the Kentucky Division of Water. The final Environmental Impact Statement (EIS) was filed with the Environmental Protection Agency in August, 1990. A supplemental EIS updating project requirements was completed in FY 1998.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1990. Funds to initiate construction were appropriated in FY 1996. The scheduled completion date has changed from the latest presented to congress (FY 2003), September 2008, to TBD.

Division: Great Lakes & Ohio River District: Louisville McAlpine Locks and Dams, KY and IN

3 February 2003



APPROPRIATION TITLE: Construction General - Locks and Dams (Navigation)

PROJECT: Locks and Dams 2, 3 and 4, Monongahela River, Pennsylvania (Continuing)

LOCATION: Existing Locks and Dams 2, 3, and 4 are the last of the old and undersized locks on the Monongahela River system and have components which have been in service for nearly 100 years. The three projects are located on the lower portion of the Monongahela River near the city of Pittsburgh, Pennsylvania and are located in Allegheny, Washington and Westmoreland Counties. Measured from the Point in Pittsburgh, Locks and Dam 2 is located at river mile 11.2, Locks and Dam 3 at river mile 23.8, and Locks and Dam 4 at river mile 41.5. Six other navigation projects situated upstream of Locks and Dam 4 provide a navigable waterway to Fairmont, West Virginia. At the Point in Pittsburgh, the Monongahela River joins with the Allegheny River to form the Ohio River.

DESCRIPTION: Existing Locks and Dam 2 consists of a main lock with chamber dimensions of 110 by 720 feet, an auxiliary lock with chamber dimensions of 56 by 360 feet, and a 748-foot fixed-crest dam. Existing Locks and Dam 3 consists of locks with chamber dimensions of 56 by 720 feet and 56 by 360 feet and a 670-foot fixed-crest dam. Existing Locks and Dam 4 consists of locks with chamber dimensions of 56 by 720 feet and 56 by 360 feet and a gated dam consisting of five 84-foot gated sections and a 43-foot fixed weir section. The authorized projects consist of a new gated dam and a rehabilitated auxiliary chamber floodway bulkhead structure at Locks and Dam 2; new twin 84 by 720 foot locks and below-dam scour protection of Locks and Dam 4; raising pool 2 by 5 feet and lowering pool 3 by 3.2 feet; removal of Locks and Dam 3; and associated channel dredging, relocations and bank stabilization. Construction began in FY 1995 with the upgrade of the Locks 2 auxiliary chamber floodway bulkhead and relocations. All work is programmed.

AUTHORIZATION: Water Resources Development Act of 1992.

REMAINING BENEFIT - REMAINING COST RATIO: 2.2 to 1 at 8 1/4 percent.

TOTAL BENEFIT - COST RATIO: 1.6 to 1 at 8 1/4 percent.

INITIAL BENEFIT-COST RATIO: 4.2 to 1 at 8 1/4 percent (FY 1995).

BASIS OF BENEFIT - COST RATIO: The initial Benefit-Cost ratio is based upon the Feasibility Report dated December 1991. The Remaining Benefit – Remaining Cost and Total Benefit – Cost ratios are based upon report entitled "Lower Monongahela River, Reassessment of Authorized Project" dated January 2002.

Division: Great Lakes & Ohio River District: Pittsburgh Locks and Dams 2, 3, and 4, Monongahela River, PA

SUMMARIZED FINANCIAL DATA

STATUS PERCENT PHYSICAL COMPLETION SCHEDULE

Estimated Federal Cost \$750,000,000

Entire Project 30 TBD

Estimated Federal Cost \$750,000,000 Entire Project 30 IBD General Appropriations 375,000,000 Inland Waterway Trust Fund 375,000,000

Estimated Non-Federal Cost 0

Total Estimated Project Cost \$ 750,000,000

	GENERAL APPNS.	WATERWAYS TRUST FUND	PCT.OF EST. FED.COST
Allocations to 30 September 2002	\$ 104,937,000	\$ 104,937,000	
Conference Allowance for FY 2003	TBD	TBD	
Allocation for FY 2003	TBD	TBD	
Allocation thru FY 2003	TBD	TBD	TBD
Allocation Requested for FY 2004	17,500,000	17,500,000	TBD
Programmed Balance to Complete after FY 2004	TBD	TBD	
Unprogrammed Balance to Complete after FY 2004	0	0	

PHYSICAL DATA

Locks and Dams 2 and 3:

New gated dam 2

Rehabilitated Auxiliary Chamber Floodway L&D 2

Bulkhead Structure L&D 2 Remove Locks and Dam 3

Raise pool 2 by 5 feet and lower pool 3 by 3.2 feet

Locks and Dam 4:

New twin 84 by 720 foot locks

INLAND

ACCUM.

Scour Protection

Division: Great Lakes & Ohio River District: Pittsburgh Locks and Dams 2, 3, and 4, Monongahela River, PA

JUSTIFICATION: The projects are located on the Monongahela River near Pittsburgh. The major problems with the projects are deteriorated structural condition and limited lock capacity. These problems are expected to become increasingly severe as the projects age. The extreme structural deterioration of Dam 2 and Locks and Dam 3 is of paramount concern. Major repairs and rehabilitation will not prevent structural failure. The probability of major structural failure and catastrophic loss of navigation pools is unacceptable. The completion of the new gated Braddock Dam, now under construction at Locks and Dam 2, together with completion of the Pool 2 relocations and raising of Pool 2, will provide significant risk mitigation while the balance of the authorized plan is under design and construction. The continued viability of the Lower Monongahela River navigation system is vital to southwestern Pennsylvania and northeastern West Virginia. For example, CONSOL Energy's Alicia Dock, located along the Monongahela River near Brownsville, PA, is a new transshipment facility with the capacity to throughput 6 million tons of coal annually. Coal is transferred from rail cars directly onto river barges, or can be stored on site up to 200,000 tons capacity. This facility will benefit from the improved reliability and efficiency to be provided by the projects. Average annual benefits are as follows:

	Allitual Deficitio	Amount
	Commercial Navigation (Shallow Draft Locks) Replacement of Shore side Utilities	\$ 150,000,000 2,600,000
	Total	\$152,600,000
FISCAL YEAR 2004: The requested amount w	ill be applied as follows:	
	Continue Real Estate Acquisition Continue Construction Planning, Engineering and Design Continue Construction Management	1,000,000 26,500,000 5,000,000 2,500,000
	Total	\$ 35,000,000

Annual Renefits

NON-FEDERAL COSTS: In accordance with the cost-sharing and financing concepts reflected in the Water Resource Development Act of 1986, 50% of the total cost of construction will be derived from the Inland Waterways Trust Fund.

Construction of the projects will require modification to privately owned shore side facilities and submarine utility crossings, which were all constructed under Department of the Army permits pursuant to Section 10 of the Rivers and Harbors Act, approved March 3, 1899. The estimated cost to owners of adapting these facilities to new project conditions is \$111,000,000.

STATUS OF LOCAL COOPERATION: None required.

Division: Great Lakes & Ohio River District: Pittsburgh Locks and Dams 2, 3, and 4, Monongahela River, PA

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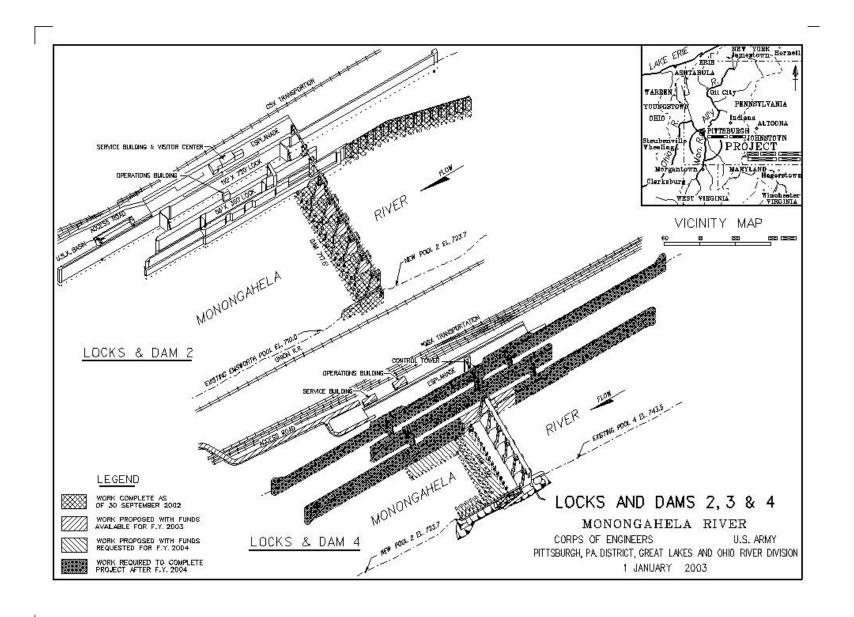
Amount

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$750,000,000 remains unchanged from the last estimate presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The final Environmental Impact Statement was filed with the Environmental Protection Agency on January 28, 1992. The Director of Civil Works signed the Record of Decision on December 17, 1992. A Supplemental Environmental Impact Statement on Project Disposal and various other Environmental Assessments, all-resulting in Finding of No Significant Impacts has been completed pursuant to NEPA.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1992. Funds to initiate construction were appropriated in FY 1995. The scheduled completion date has changed from the latest presented to congress (FY 2003), September 2010, to TBD

Division: Great Lakes & Ohio River District: Pittsburgh Locks and Dams 2, 3, and 4, Monongahela River, PA



APPROPRIATION TITLE: Construction, General - Locks and Dams (Navigation)

PROJECT: Marmet Locks and Dam, West Virginia (Continuing)

LOCATION: Marmet Locks and Dam is located in Kanawha County near Belle, West Virginia, on the Kanawha River approximately 68 miles above its confluence with the Ohio River. The pool is located entirely in West Virginia.

DESCRIPTION: The proposed modernization plan includes the construction of an additional 110 foot by 800 foot lock on the right descending bank landward of the existing locks. The plan includes the continued use of both existing 56 foot by 360 foot lock chambers as auxiliary locks. The existing dam and the hydroelectric power plant will also remain in operation. A total of 216 additional real estate tracts will be required to support the project. Of the 216 tracts, 179 are residential, 9 are commercial and 28 are vacant. All work is programmed.

AUTHORIZATION: Water Resources Development Act of 1996.

REMAINING BENEFIT-REMAINING COST RATIO: 4.2 to 1 at 7 5/8 percent.

TOTAL BENEFIT-COST RATIO: 2.5 to 1 at 7 5/8 percent.

INITIAL BENEFIT-COST RATIO: 3.3 to 1 at 7 5/8 percent (FY 1998).

BASIS OF BENEFIT-COST RATIO: Economic Update dated June 1996 and at October 1995 price levels.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		\$333,000,000	Entire Project	20	TBD
Construction General Inland Waterways Trust Fund	166,500,000 166,500,000				
Total Estimated Project Cost		\$333,000,000			

Division: Great Lakes & Ohio River District: Huntington Marmet Locks and Dam. WV

> 3 February 2003 50

SUMMARIZED FINANCIAL DATA (Continued)

	051554	INLAND	ACCUM.
	GENERAL	WATERWAYS	PCT. OF EST.
	APPNS.	TRUST FUNDS	FED. COST
Allocations to 30 September 2002	\$ 37,773,000	\$ 37,773,000	
Conference Allowance for FY 2003	TBD	TBD	
Allocation for FY 2003	TBD	TBD	
Allocations through FY 2003	TBD	TBD	TBD
Allocation Requested for FY 2004	26,077,000	26,077,000	TBD
Programmed Balance to Complete after FY 2004	TBD	TBD	
Unprogrammed Balance to Complete after FY 2004	0	0	

PHYSICAL DATA

Lock: Lands and Damages:

Number – 3 Acres – 21, Existing Locks and Dam

Existing Chambers - 2 - 56 ft. x 360 ft. - 103, New Lock Additional Chamber - 1 - 110 ft. x 800 ft.

Lift - 24 ft. Structures - 242 Residences

- 10 Businesses

JUSTIFICATION: Marmet Locks and Dam links the Kanawha Valley, an important chemical and coal producing area, to its product markets and supply areas. During 2001, 16.4 million tons of traffic locked through Marmet. Coal is the major commodity shipped on the Kanawha River, accounting for over 94 percent of the total tonnage. The Marmet project presents a significant impediment to the efficient flow of waterborne commerce due to its outdated features. To compound the effect on flow efficiency, Marmet traffic demand is projected to increase to 35.5 million tons by 2050. It is also projected that the traffic demand will increase to about 20.4 million tons, exceeding the current maximum lock capacity of 20 million tons without switch boats, by the year 2005. Amendments to the Clean Air Act, passed in November 1990, have caused an increase in demand for the Kanawha River Basin's low-sulphur coal. When the new Winfield Lock came on line in November 1997, the industry's helper boats relocated from Winfield to Marmet. Lockages at Marmet immediately increased 30% to 50% in magnitude. The congestion is expected to increase as traffic on the river increases.

The average annual benefits total \$55,627,000, all commercial navigation.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Complete Real Estate Relocations	620,000
Complete Utility Relocations	184,000
Complete Demolitions	576,000
Continue Mitigation	1,400,000
Continue Lock Construction	43,700,000
Planning, Engineering and Design	2,614,000
Construction Management	3,060,000

Total \$52,154,000

NON-FEDERAL COST: In accordance with the cost sharing and financing contained in the Water Resources Development Act of 1986, 50 percent of the total costs of construction will be derived from the Inland Waterways Trust Fund.

STATUS OF LOCAL COOPERATION: None required.

Division: Great Lakes & Ohio River District: Huntington Marmet Locks and Dam, WV

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$333,000,000 is an increase of \$20,000,000 from the latest estimate (\$313,000,000) presented to Congress (FY 2003). This change includes the following items.

Item	Amount
Price Escalation on Construction Features Post Contract Award and Other Estimating Adjustments (Including contingency adjustments)	(22,986,000) 42,986,000
Total	\$ 20,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The final EIS was filed with the Environmental Protection Agency (EPA) on January 26, 1994.

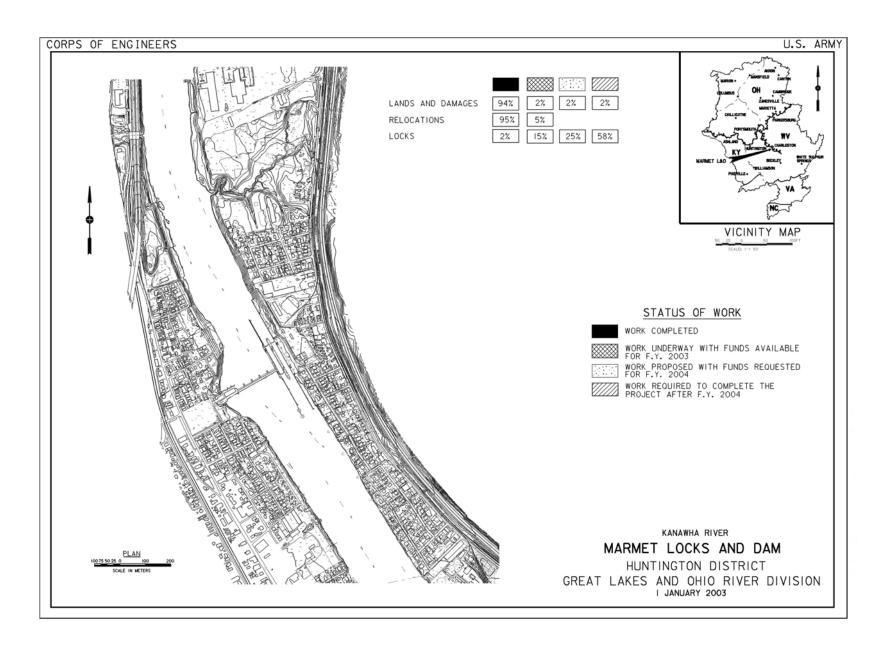
OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1994. Funds to initiate construction were appropriated in FY 1998.

Environmental Site Assessments (Phase I and II) identified soil contamination at levels sufficient to warrant remedial activity. None of the contamination identified is considered hazardous; rather, it is a non-hazardous contaminant which requires that the soil be disposed of in a landfill in conformance with Subtitle D of the Resource Conservation and Recovery Act (RCRA). No groundwater contamination was found.

The Corps developed plans for the new lock construction to have minimum interference with river traffic during construction, but some interference is expected. The Corps established dialogue with the towing industry to determine the best methods to use to minimize interference. Installation of additional navigation mooring facilities was completed in December 2002. A helper boat will be used to alleviate construction impacts associated with cofferdam construction.

The scheduled completion date has changed from the latest presented to Congress (FY2003), September 2010, to TBD.

Division: Great Lakes & Ohio River District: Huntington Marmet Locks and Dam, WV



3 February 2003

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APPROPRIATION TITLE: Construction, General - Locks and Dams (Navigation)

PROJECT: Robert C. Byrd Locks and Dam (formerly Gallipolis Locks and Dam), West Virginia and Ohio (Continuing)

LOCATION: The project is situated in the Middle Ohio Valley at Ohio River mile 279.2, approximately 14 miles downstream from the mouth of the Kanawha River in West Virginia and approximately 30 miles upstream from the City of Huntington, West Virginia. The new locks are in Mason County, West Virginia and the abutment of the dam is in Gallia County, Ohio.

DESCRIPTION: The project includes the rehabilitation of the non-navigable, high-lift, gated, existing dam and construction of a new 1200 by 110 foot main lock and a new 600 by 110 foot auxiliary lock in a canal extending across a slight bend in the river, bypassing the existing locks and dam on the left descending (West Virginia) bank. The canal, in effect, straightens the river bend and provides a relatively straight down-bound approach for several miles. All work is programmed.

AUTHORIZATION: River and Harbor Act of 1935, Supplemental Appropriations Act, 1985, and the Water Resources Development Act of 1986. The Water Resources Development Act of 1992, Section 118, changed the project name to the Robert C. Byrd Locks and Dam. The Water Resources Development Act of 2000, Section 548, added authorization to preserve and restore the General Jenkins House at Lesage/Greenbottom Swamp.

REMAINING BENEFIT-REMAINING COST RATIO: Not applicable because construction of the project is substantially complete.

TOTAL BENEFIT-COST RATIO: Not applicable because construction of the project is substantially complete.

INITIAL BENEFIT-COST RATIO: 11.3 to 1 at 8 1/8 percent (FY 1985).

BASIS OF BENEFIT-COST RATIO: General Design Memorandum, dated November, 1982, at October, 1982 price levels.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
New Construction Work Estimated Federal Cost General Appropriations Inland Waterways Trust Fund	154,750,000 154,750,000	\$ 309,500,000	Entire Project Lock Construction Mitigation Sites Dam Rehabilitation Jenkins House Resto	97 100 98 98 oration 5	TBD Jan 1993 TBD TBD TBD

Division: Great Lakes & Ohio River District: Huntington Robert C. Byrd Locks and Dam, WV and OH

SUMMARIZED FINANCIAL DATA (Continued)

Dam Rehabilitation Estimated Federal Cost		\$ 71,500,000
General Appropriations Inland Waterways Trust Fund	35,750,000 35,750,000	
Total Estimated Federal Cost	23,123,333	\$ 381,000,000
General Appropriations	190,500,000	\$ 381,000,000
Inland Waterways Trust Fund	190,500,000	
Estimated Non-Federal Cost		0
Total Estimated Project Cost		\$ 381,000,000

	GENERAL APPNS.	INLAND WATERWAYS TRUST FUNDS	ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September 2002	\$187,168,000 1/	\$187,168,000	
Conference Allowance for FY 2003	TBD	TBD	
Allocation for FY 2003	TBD	TBD	
Allocations through FY 2003	TBD	TBD	TBD
Allocation Requested for FY 2004	1,250,000	1,250,000	TBD
Programmed Balance to Complete after FY 2004	TBD	TBD	
Unprogrammed Balance to Complete after FY 2004	0	0	

^{1/} Allocations thru FY02 include \$9,526,000 paid by the Department of Treasury Judgment Fund for settled claim.

PHYSICAL DATA

Bypass Canal:

Length - 1.7 miles

Bottom Width - 500 feet (min)

Locks:

Number - 2

Main Lock - 110 x 1,200 feet Auxiliary Lock - 110 x 600 feet

Dam:

Major rehabilitation of the existing navigation dam to include replacing the dam roller gates and strengthening the foundation.

Lands and Damages:

Total existing easement area
Existing locks and dam
New locks and canal
Mitigation
Dam rehabilitation

1798 acres
82 acres
846 acres
837 acres
28 acres

JUSTIFICATION: Completion of the new locks has enabled tows to transit the project area efficiently and has completed a series of 110 by 1200 foot locks from near Pittsburgh to Cairo, Illinois. Reduced delays and transportation costs are benefiting the economy of the Nation directly and indirectly. The project is strategically located between the highly industrialized upper Ohio River Basin area and its product markets and supply regions. Robert C. Byrd Locks and Dam captures a significant portion of the commodities transiting the Ohio River. The traffic levels (number of lockages) have decreased and volume of commodities have increased at Robert C. Byrd Locks and Dam, as forecast in the authorization document. Between the years of 1993 and 2002, traffic has ranged from 51.2 to 58.1M tons annually. Commodity traffic projections reflect 75.8 million tons transiting the project in 2020.

The new locks and the dam rehabilitation also remedy problems associated with the age, condition, and hazardous location of the existing facilities. The existing locks and dam are over 50 years old and have been increasingly difficult to operate and maintain. Lock outages have been a major problem and would have become very critical in the future. Accident reports and information from the navigation industry documented that the existing facilities were unsafe due to the locks and velocities generated during above normal river conditions.

Average annual benefits for the project are estimated as follows:

Annual Benefits Amount

Commercial Navigation 161,178,000

Recreation 140,000

Total \$161,318,000

Division: Great Lakes & Ohio River District: Huntington Robert C. Byrd Locks and Dam, WV and OH

FISCAL YEAR 2004: The requested amount will be applied as follows:

	New Construction	Major Rehabilitation
Complete Mitigation	300,000	NA
Continue Painting of Bridge over Dam	NA	1,200,000
Planning, Engineering and Design	630,000	180,000
Construction Management	70,000	120,000
Total	\$ 1,000,000	\$ 1,500,000

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, 50 percent of the total costs of construction will be derived from Inland Waterways Trust Fund. The West Virginia Division of Natural Resources will be responsible for operation and management of mitigation lands at an estimated average annual cost of \$55,000 for the Greenbottom area and \$345,000 for the on-site mitigation (fish hatchery). The West Virginia Division of Culture and History annual O&M cost for the General Jenkins House is estimated to be \$30,000.

STATUS OF LOCAL COOPERATION: The West Virginia Division of Natural Resources by lease agreement has assumed responsibility for operation and management of the off-site mitigation area. The General Jenkins House has been subleased to the West Virginia Division of Culture and History. The Corps is in the process of turning the completed onsite mitigation fish hatchery in fee over to the State of West Virginia Division of Natural Resources.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$381,000,000 is unchanged from the latest estimate presented to Congress (FY 2003).

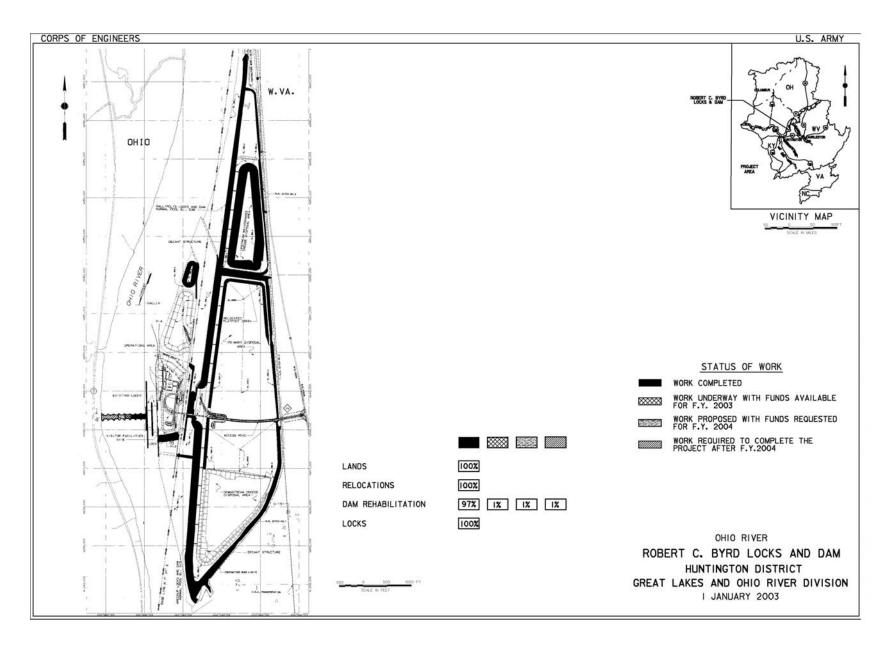
STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The Final Environmental Impact Statement (EIS) was filed with Environmental Protection Agency on January 8, 1981. Supplement I to the EIS was filed on October 30, 1991.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1984. Funds to initiate construction were appropriated in FY 1985. The Water Resources Development Act (WRDA) of 1992, Section 118, changed the project name to the Robert C. Byrd Locks and Dam.

The Water Resources Development Act of 2000, Section 548, includes authority to preserve and restore the General Jenkins House, which is located at the Greenbottom Wildlife Management Area. The Corps is working with the West Virginia Division of Culture and History and interested local historical groups to develop a strategy to implement the provisions of WRDA 2000. The scope and total cost of the restoration has not yet been developed.

The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2004, to TBD.

Division: Great Lakes & Ohio River District: Huntington Robert C. Byrd Locks and Dam, WV and OH



APPROPRIATION TITLE: Construction, General - Locks and Dams (Navigation)

PROJECT: Winfield Locks and Dam, West Virginia (Continuing)

LOCATION: Winfield Locks and Dam is located in Putnam County, West Virginia, on the Kanawha River near Eleanor, approximately 31 miles above the confluence with the Ohio River. The pool is located entirely in West Virginia.

DESCRIPTION: The modernization plan includes the construction of an additional 110 by 800 foot lock on the right descending bank landward of the existing locks and a 110-foot wide non-navigable gate bay between the old lock and the new lock. The new lock will be skewed six degrees landward (upstream to downstream) from the existing locks. The plan includes the continued use of both existing 56 by 360 foot lock chambers as auxiliary locks. The existing dam also will remain in use. All work is programmed.

AUTHORIZATION: The Supplemental Appropriations Act, 1985 for engineering and design and land acquisition, and the Water Resources Development Act of 1986 for construction.

REMAINING BENEFIT-REMAINING COST RATIO: Not applicable because construction of the project is substantially complete.

TOTAL BENEFIT-COST RATIO: Not applicable because construction of the project is substantially complete.

INITIAL BENEFIT-COST RATIO: 6.2 to 1 at 8 5/8 percent (FY 1987).

BASIS OF BENEFIT-COST RATIO: Design Memorandum No. 1, General Design Memorandum, dated April, 1988.

SUMMARIZED FINANCIAL DAT	-A		STATUS 1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE	
Estimated Federal Cost General Appropriations Inland Waterways Trust Fund	117,950,000 117,950,000	\$235,900,000	Entire Project Locks Operation	99 al 100	TBD Nov 1997	
Estimated Non-Federal Cost		0				
Total Estimated Project Cost		\$235,900,000				

Division: Great Lakes & Ohio River District: Huntington Winfield Locks and Dam, WV

SUMMARIZED FINANCIAL DATA (Continued)		INLAND	ACCUM.
	GENERAL	WATERWAYS	PCT. OF EST.
	APPNS.	TRUST FUND	FED. COST
Allocations to 30 September 2002	\$113,869,000	\$113,869,000	
Conference Allowance for FY 2003	TBD	TBD	
Allocation for FY 2003	TBD	TBD	
Allocations through FY 2003	TBD	TBD	TBD
Allocation Requested for FY 2004	1,000,000	1,000,000	TBD
Programmed Balance to Complete after FY 2004	TBD	TBD	
Unprogrammed Balance to Complete after FY 2004	0	0	

PHYSICAL DATA

Lands and Damages: Lock:

Acres - 1,243 easement Number - 1 Chamber - 110 by 800 ft.

- 41 for existing Locks and Dam

Lift - 28 ft. - 316 for new Lock

New Lock Site:

Mobile home park (37 units), two active industries, and one inactive industry.

JUSTIFICATION: Winfield Locks and Dam links the Kanawha Valley, an important chemical and coal producing area, to its product markets and supply areas. Up-bound traffic through Winfield is composed of important supplies of chemicals, feedstocks, aggregates, and petroleum fuels. Down-bound traffic is composed largely of coal produced in the upper Kanawha River Basin and destined for electric generating facilities and coking plants throughout the middle and upper Ohio River Basin. Since 1990, Winfield locks has averaged over 21.4 million tons of traffic a year. During 2001, 20.3 million tons of traffic locked through Winfield. Coal accounts for approximately 80 percent of the total tonnage.

The Winfield project presented a significant impediment to the efficient flow of waterborne commerce due to its outdated features. Before the new chamber came on-line in November 1997, only 30 percent of the barges processed at Winfield were the size that the project originally was designed to

Division: Great Lakes & Ohio River District: Huntington Winfield Locks and Dam. WV

> 3 February 2003 61

JUSTIFICATION: (Continued)

serve and only two percent of the tows were small enough to be locked in a single operation. The average delay per tow was 4.0 hours in 1996 with an average of over 4 lockages per tow. The total processing time (lockage plus delay time) was 6.7 hours, the highest in the Ohio River system. Furthermore, Winfield traffic demand is projected to more than triple over the next 70 years, from 13 million tons in 1980 to 39.2 million tons by 2050, an annual growth rate of 1.6 percent. Navigation safety has not been a major problem at Winfield Locks, but the potential for navigation accidents was present. The problem stemmed from the orientation of the locks and the design of the lock walls. The 56' X 360' locks are located on the inside of a bend in the river that requires tows to make several maneuvers to enter and exit the locks. This is especially difficult during high river flows. With 800 foot long tows becoming more common, the short upper guard wall also presents a problem. The upper guard wall is only 450 feet long, which means that about half of a tow extends beyond the end of the wall as lockage progresses. This presents a danger that the tow might break up and be swept down on the dam during high-flow conditions. As the number of large tows increases at Winfield, the probability of accidents occurring in such instances also increases.

Average annual benefits for the project total \$56,109,000, all for commercial navigation.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Construct Systems Mitigation	1,800,000
Continue Planning, Engineering and Design	110,000
Continue Construction Management	90,000

Total \$ 2,000,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, 50 percent of the total costs of construction will be derived from the Inland Waterways Trust Fund.

STATUS OF LOCAL COOPERATION: Upon completion of the project, a Memorandum of Agreement will be prepared between West Virginia Division of Natural Resources (WVDNR) and the Corps of Engineers for WVDNR to assume responsibility for operation and management of the mitigation area. Annual costs are estimated to be \$30,000.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$235,900,000 is unchanged from the latest estimate presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The final Environmental Impact Statement (EIS) was filed with the Environmental Protection Agency on September 25, 1987. The Ohio River Division Commander signed a Supplemental Environmental Impact Statement (SEIS) on April 28, 1993. The SEIS was prepared because of the need to realign the new lock as a result of hydraulic model testing.

Division: Great Lakes & Ohio River District: Huntington Winfield Locks and Dam, WV

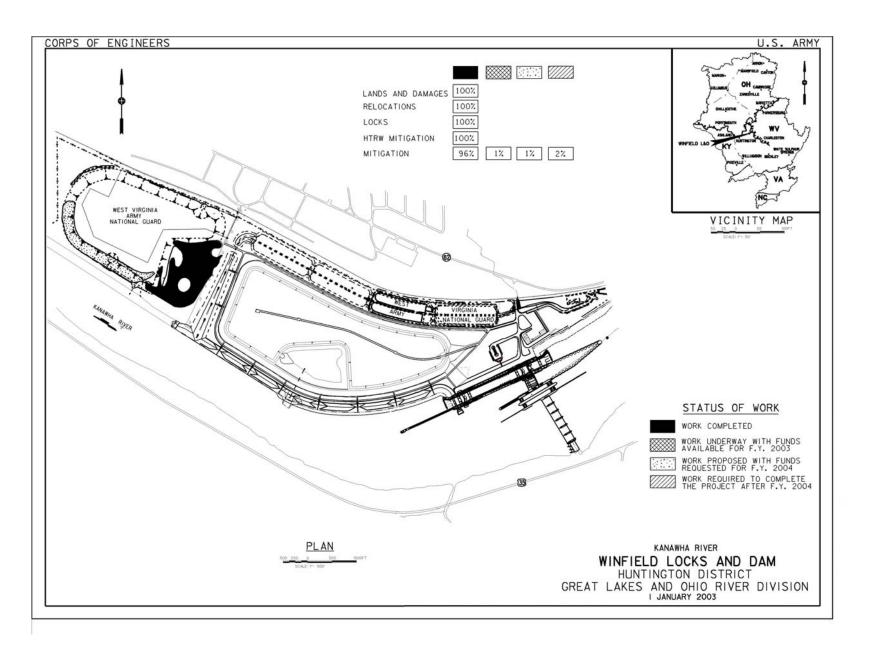
OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1985 and funds to initiate construction were appropriated in FY 1987.

Hazardous and toxic substances found on the site were removed by former landowner, ACF Industries. Temporary buildings constructed for storage of hazardous materials will be transferred to the National Guard Bureau for controlled storage of equipment. A License Agreement between the Corps and National Guard has been signed allowing the Guard to use the facility until the transfer papers are finalized. The West Virginia National Guard is constructing a complex that would include a combined support maintenance shop, organizational maintenance shop, and armory facility on thirty acres of the downstream disposal area. A License Agreement has been signed for this as well. The thirty acres will be included in the final transfer document. Because this construction would affect the mitigation agreement between the Corps and resource agencies, a memorandum of agreement was executed between the National Guard, the resource agencies, and the Corps for off-site mitigation to replace mitigation acreage lost due to transfer to the Guard.

Identification and construction of systems mitigation features remain for the project. A team comprised of the US Fish and Wildlife Service, West Virginia Division of Natural Resources, and Corps of Engineers is working to determine what type of systems mitigation is required.

The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2005, to TBD.

Division: Great Lakes & Ohio River District: Huntington Winfield Locks and Dam, WV



3 February 2003

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APPROPRIATION TITLE: Construction, General – Shoreline Protection

PROJECT: Chicago Shoreline, Illinois (Continuing)

LOCATION: The project is located in northeast Illinois on the southern shore of Lake Michigan within the City of Chicago in Cook County.

DESCRIPTION: The project consists of constructing shoreline protection structures along 9.2 miles of the shoreline in the Lincoln Park and Burnham Park areas. Other project features include: revetments near the Adler Planetarium and at Meigs Field; a breakwater to protect the South Water Purification Plant near 78th Street; and beach nourishment of two short reaches of shoreline near Fullerton Avenue and at 31st Street.

AUTHORIZATION: Water Resources Development Act of 1996, and Water Resources Development Act of 1999.

REMAINING BENEFIT - REMAINING COST RATIO: 3.2 to 1 at 7 3/4 percent.

TOTAL BENEFIT-COST RATIO: 3.6 to 1 at 7 3/4 percent.

INITIAL BENEFIT-COST RATIO: 5.5 to 1 at 7 3/4 percent (1997).

BASIS OF BENEFIT COST RATIO: Benefits are from the latest available evaluation approved in March 1998, at October 1997 price levels.

SUMMARIZED FINANCIAL D	ATA		STATUS: (1 JAN 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		\$174,000,000	Entire Project	45	TBD
Estimated Non-Federal Cost Cash Contributions	126,000,000	126,000,000	PHYS	ICAL DATA	
Other Costs	0		Step Stone Revetment	44,208 feet	
Total Estimated Project Cost		\$300,000,000	Breakwater Reconstructio Beach Replenishment	n 2,670 feet 2,000 feet	

Division: Great Lakes & Ohio River District: Chicago Chicago Shoreline, IL

	ACCUM
	PCT. OF EST
	FED COST
\$ 94,086,000	
TBD	
TBD	
TBD	TBD
24,000,000	TBD
TBD	
0	
	TBD TBD TBD 24,000,000 TBD

JUSTIFICATION: The project area includes 9.2 miles of the 28 miles of publicly owned shoreline within the City of Chicago. The adjacent land mass and transportation network are protected by continuous revetments and seawalls, most of which were built in the early 1900's. Those constructed of wood pilings and stone cribs have begun to fail. As the land behind the structures is lost due to storms, the high capacity road network which runs parallel to the shoreline will be impacted. These roads carry an estimated 120,000 vehicles per day. Re-routing this traffic will cause serious disruption and significant traffic delay damages. In addition, facilities located on public property, with a capital investment of several billion dollars, will be destroyed. Over the past several years, significant degradation of the existing shore structures has occurred. Large sections of revetment have collapsed as a result of medium duration and intensity storm events. The rate of degradation is increasing, and short-term changes in sections are easily recognizable. The purification plant breakwater had collapsed to the point where gaps in the structure were visible. The breakwater protects the South Water Purification Plant, which services 2.5 million persons.

Average annual benefits are as follows:

Annual Benefits	Amount
Storm Damage Prevention Recreation	45,127,000 26,082,000
Total	\$ 71,209,000

Division: Great Lakes & Ohio River District: Chicago Chicago Shoreline, IL

FISCAL YEAR 2004: The requested amount will be applied as follows:

Complete Construction of Montrose North Complete Construction of 37 th to 40 th Street	1,000,000 6,000,000
Complete Construction of Belmont to Diversey North	1,000,000
Complete Construction of Diversey to Fullerton	1,500,000
Continue Construction of Belmont to Diversey South	6,000,000
Continue Construction of Montrose to Irving	3,000,000
Continue Construction of 40 th to 41 st Street	3,000,000
Continue Planning, Engineering & Design	800,000
Continue Construction Management	1,700,000

Total \$24,000,000

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts contained in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payment During Construction and Reimbursements	Annual Operation, Maintenance, Repair Rehabilitation, and Replacement Costs
Pay 35 percent of the costs allocated to hurricane and storm damage reduction for the Federally supportable plan as reduced for credit allowed for non-Federal work under Section 215 of the Flood Control Act of 1968 and/or Section 206 of the Water Resources Development Act of 1992, and bear all costs of operation, maintenance, repair, rehabilitation and replacement of hurricane and storm damage reduction facilities	94,100,000	463,000
Pay all the incremental costs of the locally preferred plan over the Federally supportable plan as reduced for credit allowed for non-Federal work under Section 215 of the Flood Control Act of 1968 and/or Section 206 of the Water Resources Development Act of 1992.	31,900,000	
Total Non-Federal Costs	\$126,000,000	\$ 463,000

Division: Great Lakes & Ohio River District: Chicago Chicago Shoreline, IL

NON-FEDERAL COST: (continued)

The non-Federal sponsor has agreed to make all required payments concurrently with project construction.

STATUS OF LOCAL COOPERATION: The City of Chicago and the Chicago Park District are the local sponsors for the project. The reimbursement agreement for protection of the filtration plant (Reach 5) was executed on April 28, 1997. A Project Cooperation Agreement encompassing 31st Street to 33rd Street, 1,000 feet of protection at Belmont Avenue, and beach stabilization at 31st Street was executed in August 1998. The Project Cooperation Agreement for the remainder of the project was executed on May 17, 1999. The Chicago Park District currently owns all lands required for the project. The non-Federal cost estimate of \$126,000,000, which is exclusively the cash contribution, has not changed from the non-Federal cost estimate of \$126,000,000 which is the cash contribution as noted in the PCA. The non-Federal sponsor is financially capable and willing to contribute the non-Federal share.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate of \$174,000,000 is the same as the latest estimate (\$174,000,000) presented to Congress (FY 2003). The Administration is considering proposing changes to the cost share for shore protection projects.

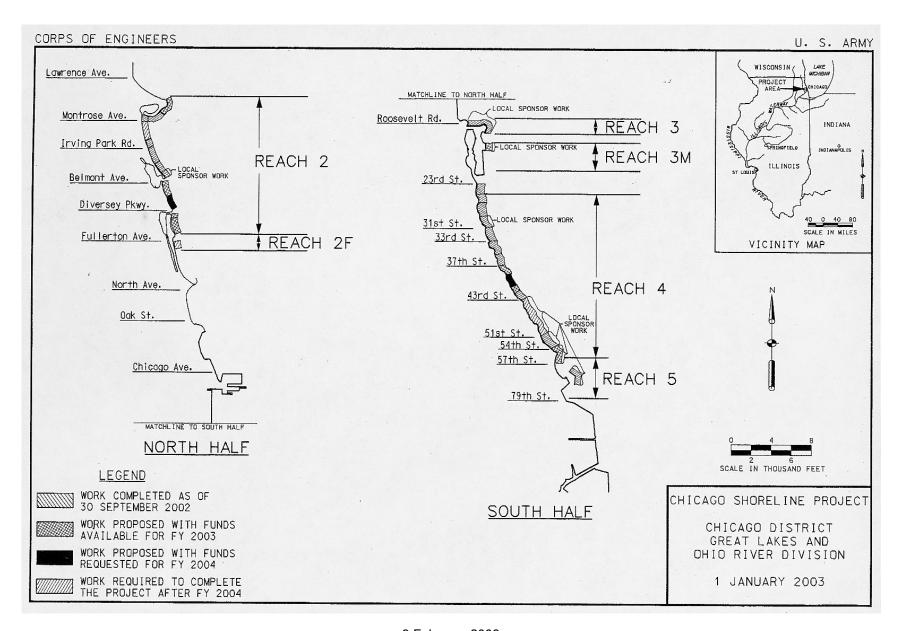
STATUS OF ENVIRONMENTAL IMPACT STATEMENT: One Environmental Assessment (EA) for entire project was signed on July 3, 1993, and another EA, for additional land at Reach 4, 51st to 54th Street was signed on June 25, 1999.

OTHER INFORMATION: Funds to initiate PED were appropriated in FY 1992. Funds to initiate construction were appropriated in FY 1997. The project authorization provides for reimbursement for the Federal share of construction work performed by the non-Federal sponsor in Reach 5. WRDA 1999 authorized credit for work that was performed at Reach 3, Solidarity Drive, prior to execution of the Project Cooperation Agreement.

The Federally supportable plan includes rubblemound revetments in Lincoln Park and Burnham Park. The locally preferred plan substitutes steel sheet pile, and concrete step-stone revetments for the rubblemound revetments. The non-Federal sponsor will pay the incremental costs of the locally preferred plan.

The scheduled completion date has changed from the latest completion date presented to Congress (FY 2003), September 2005 to TBD

Division: Great Lakes & Ohio River District: Chicago Chicago Shoreline, IL



3 February 2003

APPROPRIATION TITLE: Construction General-Shoreline Protection

PROJECT: Presque Isle Peninsula, Pennsylvania (Permanent) (Continuing)

LOCATION: Presque Isle Peninsula is located in the city of Erie, Erie County, Pennsylvania; on the south shore of Lake Erie, 78 miles southwest of Buffalo, New York and about 102 miles northeast of Cleveland, Ohio.

DESCRIPTION: The initial construction at Presque Isle State Park consisted of a system of 55 rubblemound breakwaters located offshore along the lakeward length of Presque Isle Peninsula, and placement of approximately 560,000 tons of beach sand fill. Each breakwater is 150 feet long with a 350 foot gap between structures. The initial construction was completed in November 1992, but in order to maintain the beaches, a periodic nourishment program for 50 years following the initial project construction was required. All work is programmed.

AUTHORIZATION: Water Resources Development Act (WRDA) of 1986 (Public Law 99-662)

REMAINING BENEFIT-REMAINING COST RATIO: Not applicable because initial construction has been completed.

TOTAL BENEFIT-COST RATIO: 1.4 to 1 at 8-7/8 percent.

INITIAL BENEFIT-COST RATIO: 1.3 to 1 at 8-7/8 percent (FY 1988)

BASIS OF BENEFIT-COST RATIO: Phase II General Design Memorandum approved 27 July 1988 (January 1986 price levels).

Division: Great Lakes & Ohio River District: Buffalo Presque Isle Peninsula, PA

SUMMARIZED FINANCIAL DATA				STATUS: (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		04.005.000	64,935,000	(
Programmed Construction Initial Construction	13,435,000	64,935,000		Initial Construction	100	Nov 1992
Periodic Nourishment	51,500,000			Periodic nourishment	18	TBD
Estimated Non-Federal Cost			64,935,000			
Programmed Construction Initial Construction	64,935,000					
Cash Contribution	13,435,000					
Other Costs (Lands) Periodic Nourishment	0					
Cash Contribution Other Costs	51,500,000 0					
	U					
Total Estimated Project Cost Initial Construction	26,870,000		\$129,870,000			
Periodic Nourishment	103,000,000					
			ACCUM	PHYSICAI	_ DATA	
			PCT. OF EST.	laitial Oanataatiaa		
Allocations to 30 September 2002		\$ 19,359,000	FED. COST	Initial Construction: 55 Rubblemound 0)ffshore Breakwate	re
Conference Allowance for FY 2003	3	TBD		560,000 Tons of Bo		
Allocations for FY 2003		TBD		Removal of some e	existing shore prote	ction structures.
Allocations through FY 2003		TBD	TBD	Periodic nourishment:		
		600,000	TBD	55,000 Tons of Beach Nourishment (Annually)		Annually)
Programmed Balance to Complete Unprogrammed Balance to Complete		TBD 4 0				

Division: Great Lakes & Ohio River District: Buffalo Presque Isle Peninsula, PA

JUSTIFICATION: That portion of the project referred to herein as the Initial Construction, as detailed in the Phase II General Design Memorandum, was approved on 27 July 1988, and being a system of segmented breakwaters, was completed in November 1992.

The annual benefits identified in that Design Memorandum updated to current price levels are as follows:

Amount
167,000
7,000
21,000
401,900
2,574,200
\$ 3,171,100

FISCAL YEAR 2004: The requested will be applied as follows:

Nourishment Contract	483,000
Planning, Engineering and Design	81,000
Construction Management	36,000
Total	\$ 600,000

NON-FEDERAL COST: In accordance with the cost-sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation:	Payments During Construction and Reimbursements	Annual Operation, Maintenance, Repair, Rehabilitation and Replacement Costs
Pay one-half of the separable costs allocated to recreation, including periodic nourishment, and bear all costs of operation, maintenance, repair, rehabilitation, and replacement of breakwater features.	64,935,000	101,200
Total Non-Federal	\$ 64,935,000	\$ 101,200

The non-Federal sponsor has agreed to make all required payments concurrently with project construction and 50% of its share of periodic nourishment costs through the life of the project.

Division: Great Lakes & Ohio River District: Buffalo Presque Isle Peninsula, PA

STATUS OF LOCAL COOPERATION: The Local Cooperation Agreement was executed by the Assistant Secretary of the Army on 22 June 1989. In a letter dated 3 October 1988, the non-Federal sponsor indicated that it is financially capable and willing to contribute the 50% non-Federal share of the project. The LCA was first amended 13 May 1991, second amended 22 September 1998, and a third amendment is undergoing HQUSACE review.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$64,935,000 is a decrease of \$1,650,000 from the latest (\$66,585,000) presented to Congress (FY2003). The Administration is considering proposing changes to the cost share for shore protection projects. This change includes the following item:

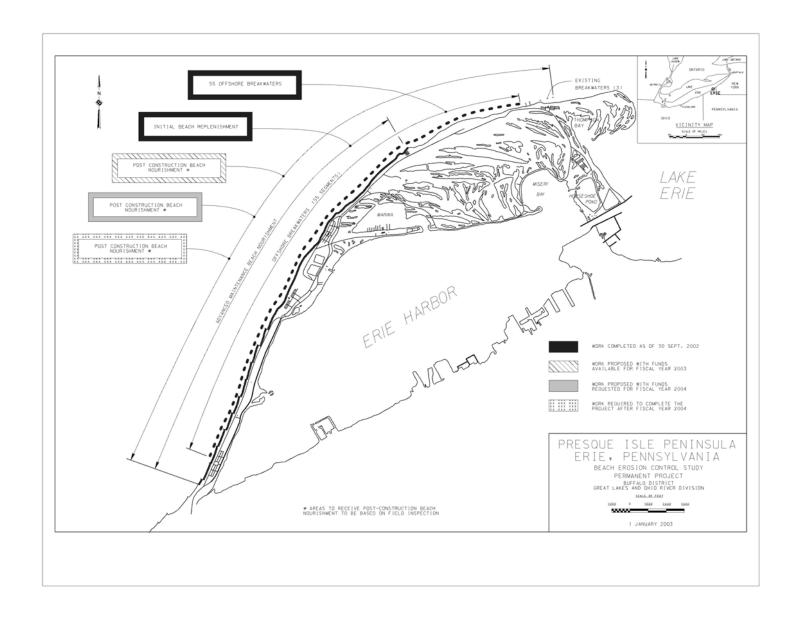
Item	Amount
Price Escalation in Construction Features	\$ (1,650,000)
Total	\$ (1,650,000)

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The Final Environmental Impact Statement was filed with USEPA on 13 March 1981. The provisions of Section 404 of the Clean Water Act were met by the Public Notice issued on 9 October 1979, a Section 404(b)(1) Evaluation dated 21 December 1979, and a Section 401 Water Quality Certificate issued by the Commonwealth of Pennsylvania dated 8 August 1988. The Record of Decision which completed the NEPA process was signed by the Director of Civil Works on 2 November 1988.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1988 and funds to initiate construction were appropriated in FY 1989.

The scheduled completion date has changed from the latest presented to Congress (FY2003) of June 2042, to TBD.

Division: Great Lakes & Ohio River District: Buffalo Presque Isle Peninsula, PA



APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: McCook and Thornton Reservoirs, Illinois (Continuing)

LOCATION: The project area covers 341 square miles of the combined sewer area in Cook County in Chicago and 48 adjacent suburban communities.

DESCRIPTION: The authorized project consists of constructing two reservoirs from stone quarries located in McCook and Thornton, Cook County, Illinois having floodwater storage capacities of 21,400 acre-feet (7 billion gallons) and 14,600 acre-feet (4.8 billion gallons), respectively. The Thornton Reservoir project authorization was modified to evaluate inclusion of the National Resource Conservation Service Thorn Creek Reservoir with the Thornton Reservoir project. A Limited Reevaluation Report currently under ASA(CW) review will evaluate the construction of a composite reservoir at Thornton. This could increase the capacity to 24,200 acrefeet (7.8 billion gallons). The two reservoirs will serve as the termini of the Metropolitan Water Reclamation District of Greater Chicago's TARP project (Tunnel and Reservoir Plan) Phase I tunnels. TARP was developed by Federal, State, regional and local government as a regional plan for reducing flood damages and improving water quality in area waterways. The two reservoirs will capture and store combined sewer flows from the tunnel systems for later treatment after the storm event. Currently, when the tunnels reach their capacity, the combined flow of raw sewage and storm water backs up through the sewer system into basements of homes & businesses and roadways and is discharged directly into area waterways. When storm events are severe, the locks must be opened to release the combined sewer flow into Lake Michigan - the source of drinking water for millions. Reservoir features include pumps, a cutoff wall, main & distribution tunnels/gates/valves, hydraulic structures, wall stabilization, aquifer protection and aeration & wash-down systems.

AUTHORIZATION: Water Resources Development Act of 1988, modified by the Water Resources Development Act of 1999.

REMAINING BENEFIT-REMAINING COST RATIO: 1.7 to 1 at 8 1/2 percent.

TOTAL BENEFIT-COST RATIO: 1.6 to 1 at 8 1/2 percent.

INITIAL BENEFIT-COST RATIO: 2.0 to 1 at 8 1/2 percent (FY 1994).

BASIS OF BENEFIT-COST RATIO: McCook Reservoir benefits are based on the latest available evaluation in the Final Special Reevaluation Report dated February 1999 at October 1997 price levels. Thornton benefits are based on the Limited Reevaluation Report dated July 2002, currently under ASA(CW) review.

Division: Great Lakes & Ohio River District: Chicago McCook and Thornton Reservoirs, IL

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost Estimated Non-Federal Cost Cash Contributions Other Costs Total Estimated Project Cost	125,571,000 90,429,000	\$ 648,000,000 216,000,000 \$ 864,000,000	McCook Reserv Thornton Reser Entire Project		TBD TBD TBD
			ACCUM. PCT. OF EST. FED. COST	PHYSICAL DAT	⁻ A
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$	45,699,000 TBD TBD TBD	TBD	McCook Reservoir Storage Capacity Thornton Reservoir Storage Capacity	21,400 acre-feet 14,600 acre-feet
Allocation Requested for FY 2004 Programmed Balance to Complete Unprogrammed Balance to Complete		18,000,000 TBD 04 0	TBD	_13.252 22230109	,555 55.5 1000

JUSTIFICATION: The McCook and Thornton Reservoirs Project covers 341 square miles of the combined sewer area in Chicago and suburban communities. Within this region, over 500,000 homes suffer flooding attributable to sewer outfall submergence caused by the inadequate capacity of the area waterways. The McCook Reservoir will provide an additional 7 times the storage capacity of its billion gallon capacity connecting tunnel system and will provide flood damage reduction benefits to Chicago and 36 suburban communities where 146,000 homes and businesses flood annually. The Thornton Reservoir will provide an additional 8 times the storage capacity of its half billion capacity connecting tunnel system and will provide flood damage reduction to Chicago and 13 suburban communities where 35,000 homes and businesses flood annually. The project will also improve water quality in area waterways, reduce untreated sewage backflow into Lake Michigan and reduce beach closures.

Average annual benefits are as follows:

Annual Benefits	Amount
Flood Damage Prevention	80,021,000
Water Quality	14,732,000
Water Supply	10,042,000
Recreation	1,030,000
Total	\$ 105,825,000

FISCAL YEAR 2004: The requested amount will be applied as follows:

McCook Reservoir	
Continue construction of tunnels	7,000,000
Continue construction of Pumps	5,000,000
Continue construction of Test Grout	4,000,000
Engineering & Design	700,000
Construction Management	1,300,000
Total	\$ 18,000,000

Division: Great Lakes & Ohio River District: Chicago McCook and Thornton Reservoirs, IL

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation		Payment During Construction and Reimbursements	Maintenance, Repair, Rehabilitation, and Replacement Costs
requirements of Local Cooperation		Reimbarsements	Replacement Costs
McCook Reservoir: Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal areas.		6,083,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and facilities, where necessary for the construction of the project.	d other	24,804,000	
Pay 19 percent of the costs allocated to flood control to bring the total share of flood control costs to 25 percent and bear all costs of operation repair, rehabilitation and replacement of flood control facilities.		103,113,000	4,300,000
Total McCook Reservoir		\$134,000,000	4,300,000
Thornton Reservoir: Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal areas.		\$ 27,680,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), other facilities, where necessary for the construction of the project.		31,862,000	
Pay approximately 7 percent of the costs allocated to flood control to b non-Federal share of flood control costs to 25 percent and bear all cosmaintenance, repair, rehabilitation and replacement of flood control face.	ts of operation,	22,458,000	2,700,000
Total Thornton Reservoir		\$ 82,000,000	\$2,700,000
Total Non-Federal		\$216,000,000	\$7,000,000
Division: Great Lakes & Ohio River	District: Chicago		McCook and Thornton Reservoirs, IL
	3 February 2003		78

STATUS OF LOCAL COOPERATION: The Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) is the local sponsor for the project. The Project Cooperation Agreement for McCook Reservoir was executed on 10 May 1999. The non-Federal sponsor is expected to make all required payments concurrently with project construction. The current non-Federal cost estimate for the McCook Reservoir is \$134,000,000, which includes a cash contribution of \$103,113,000 and is an increase of \$4,950,000 from the non-Federal cost estimate of \$129,050,000 noted in the Project Cooperation Agreement, which included a cash contribution of \$99,978,000.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate of \$648,000,000 is an increase of \$135,000,000 from the latest estimate (\$513,000,000) presented to Congress (FY 2003). This change includes the following items:

Item	Amount
Authorized Modifications Price Escalation on Construction Features	128,000,000 7,000,000
Total	\$ 135,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: Public and Agency review of final Environmental Impact Statement and the Special Reevaluation Report (EIS/SRR) for the McCook Reservoir project was completed in December 1998 and the Record of Decision (ROD) was signed on May 5, 1999. The Thornton Reservoir Environmental Assessment and Finding of No Significant Impact were signed in June 2001 and December 2001 respectively.

OTHER INFORMATION: Funds to initiate PED were appropriated in FY 1988. Funds to initiate construction were appropriated in FY 1994. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2014 to TBD.

Division: Great Lakes & Ohio River District: Chicago McCook and Thornton Reservoirs, IL

SEPARABLE ELEMENT: McCook Reservoir, Illinois

SUMMARIZED FINANCIAL DATA

Estimated Federal Cost \$402,000,000

Non-Federal Cost 134,000,000

Cash Contributions 103,113,000 Other Costs 30,887,000

Total Estimated Project Cost \$ 536,000,000

REMAINING BENEFIT-REMAINING COST RATIO: 1.9 to 1 at 8 1/2 percent

TOTAL BENEFIT-COST RATIO: 1.7 to 1 at 8 1/2 percent

SEPARABLE ELEMENT: Thornton Reservoir, Illinois

SUMMARIZED FINANCIAL DATA

Estimated Federal Cost \$245,000,000

Non-Federal Cost 82,000,000

Cash Contributions 22,458,000 Other Costs 59,542,000

Total Estimated Project Cost \$328,000,000

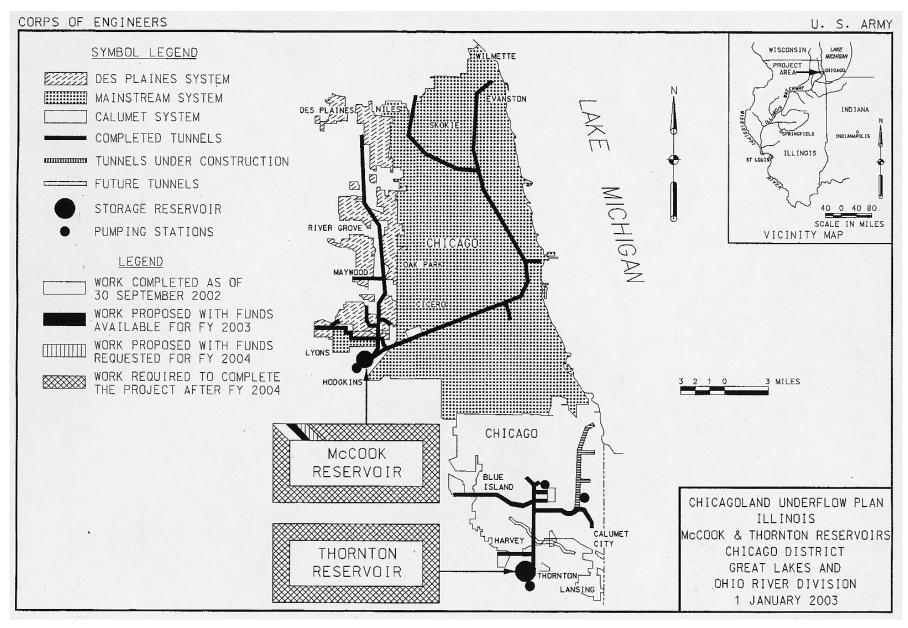
REMAINING BENEFIT-REMAINING COST RATIO: 1.4 to 1 at 8 1/2 percent

TOTAL BENEFIT-COST RATIO: 1.3 to 1 at 8 1/2 percent.

Division: Great Lakes & Ohio River District: Chicago McCook and Thornton Reservoirs, IL

3 February 2003

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APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Indianapolis, White River (North), Indiana (Continuing)

LOCATION: The project encompasses approximately 3.0 miles of the White River in the City of Indianapolis, Indiana.

DESCRIPTION: The recommended plan consists of a combination of floodwall and levee flood protection along approximately 3.0 miles of the east bank of the White River in Indianapolis. The project will be constructed in three phases. The first phase consists of the rehabilitation of an existing pump station and the development of a flood warning plan and system. The second phase will consist of 2 mitigation sites totaling 37 acres of reforestation and mitigation. The third phase will consist of the construction of 19,150 feet of sheetpile floodwall with concrete facing and 1,220 feet of earthen levee. This phase will be constructed in sections as three individual contracts.

AUTHORIZATION: Flood Control Act of 1936 as amended by the Flood Control Act of 1938, and subject to cost sharing provisions of the Water Resources Development Act of 1986.

REMAINING BENEFIT-COST RATIO: 4.8 to 1 at 7 1/8 percent

TOTAL BENEFIT-COST RATIO: 2.5 to 1 at 7 1/8 percent

INITIAL BENEFIT-COST RATIO: 2.4 to 1 at 7 1/8 percent

BASIS OF BENEFIT-COST RATIO: A Benefit Evaluation conducted in May 1997 at October 1995 price levels.

SUMMARIZED FINANCIAL E	DATA			PERCEN COMPLE		ETION
Estimated Federal Cost		\$ 13,125,000	Phase I Phase II	75 35	TBD TBD	
Estimated Non-Federal Cost Cash Contribution Other Costs	3,114,000 1,261,000	4,375,000	Phase III Entire Project	20 20	TBD TBD	
			PH	YSICAL [DATA	
Total Estimated Project Cost		\$ 17,500,000	Pump Station Rehab (Phase I) Flood Warning System (Phase Mitigation Sites (Phase II)		Floodwall (Phase III) Levees (Phase III)	19,150 ft. 1,220 ft.

Division: Great Lakes & Ohio River District: Louisville Indianapolis, White River (North), IN

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	ACCUM. PCT OF EST. FED. COST
\$ 2,526,000	
TBD	
TBD	
TBD	TBD
2,600,000	TBD
TBD	
0	
	TBD TBD TBD 2,600,000 TBD

JUSTIFICATION: Urban expansion in Hamilton County to the north and Hancock County to the east is impacting hydrologic characteristics of the urbanized watersheds in Marion County. The flooding of January 1991 forced evacuation of 500 to 600 homes and damaged many more. Roadways were flooded causing severe damage and loss of access; and several serious injuries were reported. Based on current flood damage survey data, a 100-year annual flood event would cause damages of \$57,930,000 (1995 price levels) in the Warfleigh area. The recommended plan reduces average annual flood damages by 90 percent in the Warfleigh area and provides a 286-year level of protection.

Average annual benefits are as follows:

Amount
2,898,000
49,000
\$ 2,947,000

FISCAL YEAR 2004: The requested amount will be applied as follows:

Complete Phase IIIa Construction Contract	2,247,000
Planning, Engineering, and Design	43,300
Construction Management	309,700
Total	\$ 2,600,000

Division: Great Lakes & Ohio River District: Louisville Indianapolis, White River (North), IN

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NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payments During Construction and Reimbursements	Annual Operation Maintenance, Repair Rehabilitation and Replacement Costs
Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal are	eas. 1,225,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	36,000	
Pay approximately 19 percent of the costs allocated to flood control to bring the total non-Federal share of flood control costs to 25 percent and bear all costs of operation, maintenance, repair, replacement, and rehabilitation of flood control facilities.	3,114,000	21,000
Total Non-Federal Costs	\$ 4,375,000	\$ 21,000

The non-Federal sponsor will be required to make all payments concurrently with project construction.

Floodplain Management Requirement.

A flood warning preparedness plan will provide significant benefit to the project area and will continue to be developed in close cooperation with City officials. In addition, the sponsor will be required to participate in and comply with applicable Federal Floodplain Management and Flood Insurance Programs in accordance with Section 402 of Public Law 99-662 as amended by Section 202(c) of Public Law 104-303. Finally, the sponsor will be required to publicize floodplain information in the area concerned and provide this information to zoning and other regulatory agencies for their use in preventing unwise future development in the flood plain and in adopting such regulations as may be necessary to prevent unwise future development and to ensure compatibility with protection levels provided by the project. The sponsor has an active flood plain management plan in place through the Indiana Department of Natural Resources.

Division: Great Lakes & Ohio River District: Louisville Indianapolis, White River (North), IN

STATUS OF LOCAL COOPERATION: The non-Federal sponsor is the City of Indianapolis, Indiana. The sponsor has provided all necessary local assurances for this stage of project development. The City of Indianapolis is a legally constituted public body with the full power, authority, and capability to perform the terms of the Project Cooperation Agreement (PCA). The terms of the PCA have been discussed with the sponsor and they understand their responsibilities. The PCA was executed in December 2000. The City of Indianapolis will fund its share of project costs through revenue generated from the flood district tax which is part of the property tax mechanism for the entire county.

The current non-Federal cost estimate of \$4,375,000, which includes a cash contribution of \$3,114,000 is an increase of \$100,000 from the non-Federal cost estimate of \$4,275,000 noted in the Project Cooperation Agreement, which included a cash contribution of \$3,014,000. In a letter dated 12 July 2000, the non-Federal sponsor indicated that it is financially capable and willing to contribute the increased non-Federal share. Our analysis of the non-Federal sponsor's financial capability to participate in the project affirms that the sponsor has a reasonable and implementable plan for meeting its financial commitment.

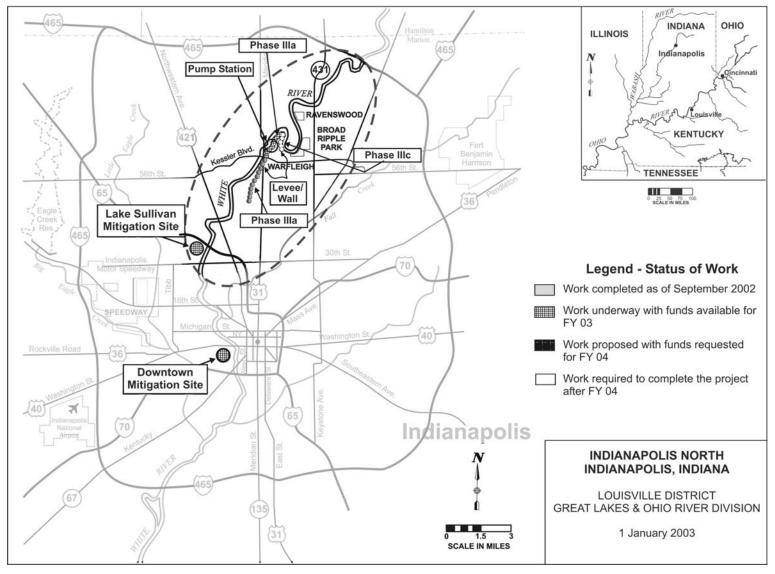
COMPARISON OF FEDERAL COST ESTIMATES: The Federal Cost estimate of \$13,125,000 is an increase of \$270,000 from the latest estimate (\$12,855,000) presented to Congress (FY2003). The change includes the following items:

Item	Amount
Price Escalation on Construction Features	\$270,000
Total	\$270,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: A draft Environmental Impact Statement was circulated in May 1996 to all concerned agencies and the public for review. A final EIS was completed in September 1996 incorporating agency and public comments.

OTHER INFORMATION: Funds to initiate Preconstruction Engineering and Design were appropriated in FY 1996. Initial construction funds were appropriated in FY 2000. Fish & Wildlife mitigation cost is \$113,000. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2005, to TBD.

Division: Great Lakes & Ohio River District: Louisville Indianapolis, White River (North), IN



3 February 2003

APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Little Calumet River, Indiana (Continuing)

LOCATION: The Little Calumet River Basin, Northwest Indiana, Lake County.

DESCRIPTION: The project consists of replacing 9.5 miles of existing spoil bank levees with 12.1 miles of new levees, floodwalls, and closure and appurtenant structures between the Illinois-Indiana State line and Cline Avenue in Gary, Indiana; constructing 9.7 miles of set-back levees and appurtenant drainage structures; installing a flow control structure at Hart Ditch; permanent evacuation of 37 structures in the Black Oak area of Gary, Indiana; construct a betterment levee from Cline to Clark; modifying 7 miles of channel with 3 accompanying bridge culvert modifications; modifying 1 highway bridge; constructing 16.8 miles of hiking/biking trails and accompanying recreation support facilities, and preserving 788 acres of wildlife habitat. A Post Authorization Change Report was approved in May 1999 extending the eastern limit of the project to include the Marshalltown area.

AUTHORIZATION: Water Resources Development Act of 1986.

REMAINING BENEFIT-REMAINING COST RATIO: 1.6 to 1 at 8 5/8 percent.

TOTAL BENEFIT-COST RATIO: 1.3 to 1 at 8 5/8 percent.

INITIAL BENEFIT-COST RATIO: 2.1 to 1 at 8 5/8 percent (FY 1990).

BASIS OF BENEFIT-COST RATIO: Benefits are from the latest available evaluation approved in October 1994 at 1993 price levels. A Post Authorization Change Report was approved in May 1999.

Division: Great Lakes & Ohio River District: Chicago Little Calumet River, IN

SUMMARIZED FINANCIAL	DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE		SICAL PLETION DULE
Estimated Federal Cost Estimated Non-Federal Cos Cash Contributions Other Costs	st 14,668,000 38,332,000	\$145,000,0 53,000,0		Entire Project	57 PHYSICAL DAT	ТВ ГА	D
Total Estimated Project Cos	st	\$198,000,0	00	Pumping Structur Structur			21.8 miles 17 37 53 7 miles 6.8 miles
Allocations to 30 Septembe Conference Allowance for F Allocation for FY 2003 Allocations through FY 2003	Y 2003	\$	84,550,000 TBD TBD TBD	TBD			
Allocation Requested for FY Programmed Balance to Co Unprogrammed Balance to	mplete After		3,800,000 TBD 0	TBD			

JUSTIFICATION: Overbank flood damages occur to 8,600 structures, primarily residential, along the Little Calumet River in Indiana within the communities of Hammond, Munster, Griffith and Gary. The total value of these structures is in excess of \$775 million. Flood damages also occur to commercial and public buildings, golf courses and the transportation network. The major highway transportation link between the Chicago metropolitan area and the eastern United States, Interstate 80/94, is susceptible to closure beginning at a 40-to 50-year flood event. Average annual benefits (October 1993 price levels) are estimated at

Division: Great Lakes & Ohio River District: Chicago Little Calumet River, IN

JUSTIFICATION: (continued)

\$18,607,000. The project will provide essentially a 200-year level of flood protection. An estimated \$35 million in flood damages were incurred and one life lost in the November 1990 flood, the most recent significant flood event. The communities of Hammond, Highland and Munster, IN were inundated. The President declared the area inundated by the November 1990 flood a National Disaster Area on December 6, 1990. The State of Indiana continues to rate the flood damage potential along the Little Calumet River as the most severe in the state. The project avoids the short-and long-term adverse impacts associated with the destruction or modification of wetlands by designating the existing wetland areas in the Gary reach for overbank flood storage, a vital requirement of the hydraulic operation and design of the project, and hence required project lands. Environmental attributes are being mitigated for, as well as, enhanced along the river corridor. Lake County, Indiana qualifies as an area of persistent and chronic unemployment. A minority plan has been developed that identifies construction contracts which can be set aside for small business contractors and minority owned/Section 8A contractors who exist in the project area. A 40 percent minority participation goal has been established for all future construction contracts for the Contractor's aggregate workforce in each trade. The project will create 424 man-years of labor during the construction period.

Average annual benefits are as follows:

Flood Damage Prevention 15,917,000 Recreation 468,000 Land Enhancement 2,222,000	Annual Benefits	Amount
	Recreation	468,000

Total \$18,607,000

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Construction contract of Stage VI-1	2,871,000
Complete construction of Wetland Mitigation	279,000
Planning, Engineering and Design	400,000
Construction Management	250,000
Total	\$3,800,000

Division: Great Lakes & Ohio River District: Chicago Little Calumet River, IN

NON-FEDERAL COST: In accordance with the cost sharing and financing requirements contained in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Annual Operation

Requirements of Local Cooperation	Payment During Construction and Reimbursements	Annual Operation, Maintenance, Repair Rehabilitation, and Replacement Costs
Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal areas.	18,517,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project, reduced for credit allowed based on prior work (Section 104 of the Water Resource Development Act of 1986; \$1,667,200) after reductions for such credit have been made in the required cash payments.	19,815,000	
Pay one-half separable costs allocated to recreation and bear all costs of operation, maintenance, repair, rehabilitation and replacement of recreation facilities;	2,522,000	
Pay approximately 5 percent of the costs allocated to flood control (other than non-structural measures) to bring the non-Federal share of flood control costs to 25 percent as determined under Section 103 (m) of the Water Resource Development Act of 1986, as amended; to reflect credit allowed for prior work (Section 104 of the Water Resource Development Act of 1986; \$1,667,200); and bear all costs of operation, maintenance, repair, rehabilitation and replacement of flood control facilities.	9,997,000	150,000
Pay 25 percent of the first cost allocated to non-structural flood control measures.	1,909,000	
Pay 25 percent of the costs allocated to fish and wildlife enhancement, and pay 25 percent of the costs of operation, maintenance, repair, rehabilitation and replacement of the fish and wildlife facilities.	240,000	
Total Non-Federal Costs	\$53,000,000	\$ 150,000

District: Chicago

3 February 2003

Little Calumet River, IN

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Division: Great Lakes & Ohio River

STATUS OF LOCAL COOPERATION: The Little Calumet River Basin Development Commission is the local sponsor for the project. The Local Cooperation Agreement (LCA) was executed on August 16, 1990. The LCA was supplemented twice to include the East Reach Remediation, 30 July 1999 and Burr Street Betterment, 26 April 2000. The current non-Federal cost estimate of \$53,000,000, which includes a cash contribution of \$14,668,000, is an increase of \$29,400,000 from the non-Federal cost estimate of \$23,600,000 noted in the Local Cooperation Agreement, which included a cash contribution of \$4,800,000. The non-Federal sponsor is financially capable and willing to contribute the non-Federal share. The local sponsor has received approval for Section 104 credits in the amount of \$1,667,200.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate of \$145,000,000 is an increase of \$2,000,000 from the latest estimate (\$143,000,000) presented to Congress (FY 2003). This change includes the following items:

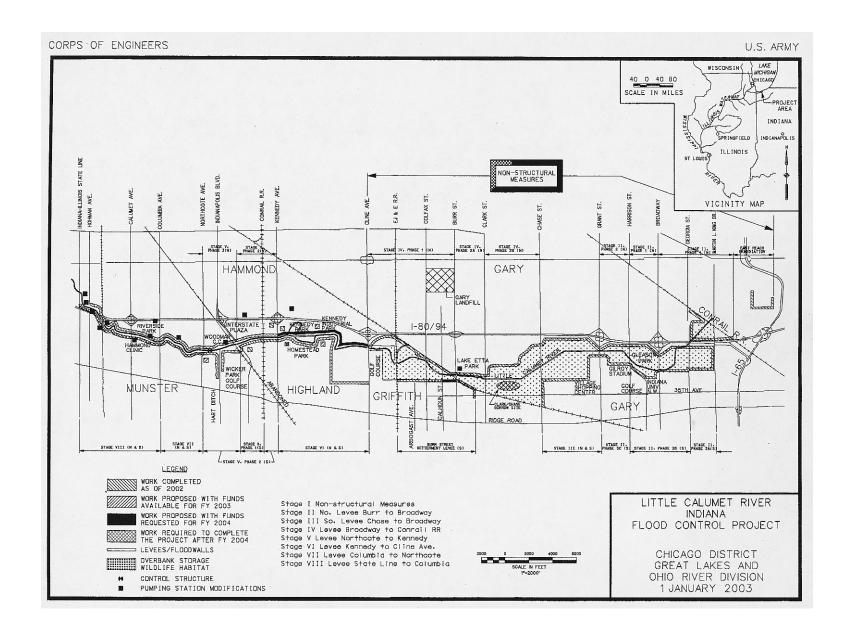
Item	Amount
Price Escalation on Construction Features	\$2,000,000
Total	\$2,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The final Environmental Impact Statement (EIS) was filed with the United States Environmental Protection Agency on February 3, 1984. The Record of Decision was signed on July 13, 1990. Environmental Assessments (EA) were subsequently prepared addressing potential borrow and disposal sites which were not covered in the EIS and the three Findings of No Significant Impact which were signed by the District Engineer on May 9, 1990, July 11,1991 and April 21, 1992. A supplemental Environmental Impact Statement was completed for the levee re-alignment, excavated ponding areas and new borrow sites. The Record of Decision was signed on June 23, 1995.

OTHER INFORMATION: Funds to initiate PED were appropriated in FY 1984 and funds to initiate construction were appropriated in FY 1990. Fish and wildlife mitigation and enhancement costs for this project are estimated at \$4,611,000. A 902 PAC report was approved by HQUSACE on 5 December 2000.

The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2010 to TBD.

Division: Great Lakes & Ohio River District: Chicago Little Calumet River, IN



3 February 2003

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APPROPRIATION TITLE: Construction, General (Flood Control)

PROJECT: Ohio River Greenway Public Access, Indiana (Continuing)

LOCATION: The Ohio River Greenway is a seven-mile linear corridor that extends from the City of Jeffersonville through the Town of Clarksville to the City of New Albany, Indiana, along the Ohio River Shoreline. The project extends from Ohio River Mile 602 to Ohio River Mile 609. The corridor adjoins the McAlpine Locks and Dam project and the Falls of the Ohio National Wildlife Conservation Area on the Indiana side of the river.

DESCRIPTION: Federal participation in discrete recreation facilities is authorized, but these facilities will not be implemented as part of the project. The main project features consist of a vehicular parkway, pedestrian and multi-use paths, a bridge, and two levee cuts for additional access to the river. All work is programmed.

AUTHORIZATION: Water Resources Development Act of 1996.

REMAINING BENEFIT-COST RATIO: 2.4 to 1 at 6 7/8 percent

TOTAL BENEFIT-COST RATIO: 2.0 to 1 at 6 7/8 percent

INITIAL BENEFIT-COST RATIO: 2.0 to 1 at 6 7/8 percent

BASIS OF BENEFIT-COST RATIO: Economic Analysis, Report on the Ohio River Greenway Corridor, dated January 2000 at 1 Oct 1999 price levels.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		\$ 17,500,000	Entire Project	11	TBD
Estimated Non-Federal Cost Cash Contribution Other Costs	11,320,000 6,180,000	17,500,000	Levee Cuts Roadway	PHYSICAL DA	ATA 85 ft. 7 mi.
Total Estimated Project Cost		\$ 35,000,000	Trails/Paths Gates Bridge		9 mi. 2 1

SUMMARIZED FINANCIAL DATA (Continued)		ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$ 2,682,000 TBD TBD TBD	TBD
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004	1,000,000 TBD 0	TBD

JUSTIFICATION: The primary purpose of this project is to enhance public access to the amenities of the Ohio River in the vicinity of the local flood protection project. After the 1937 flood, which caused considerable damage to the southern Indiana communities of Jeffersonville, Clarksville, and New Albany, the Federal Government participated in the construction of a flood damage reduction project to protect these communities from future flooding. The existing local protection project, which consists of approximately eight miles of earth levee, 2.5 miles of concrete wall, and 16 pumping plants, is operated and maintained by these three communities. The series of earth levees and concrete floodwalls was constructed between 1937 and 1953 and protects approximately 80,000 residents and physically separates them from the river. The local flood protection project continues to serve its function, however, it separates or cuts off the communities from the riverfront and provides them with limited access for operation and maintenance of the facilities. If constructed today, the project would provide the local communities opportunities to more efficiently operate and maintain the existing flood control facilities and provide better access to the amenities of the Ohio River.

The average annual benefits are \$6,958,000, all for access.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Construction Management	25,000
Planning, Engineering, and Design	850,000
Continue Construction of the Clarksville Project	125,000

Total \$ 1,000,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financial concepts reflected in Water Resources Development Act 1986, the non-Federal sponsor must comply with the requirements listed below.

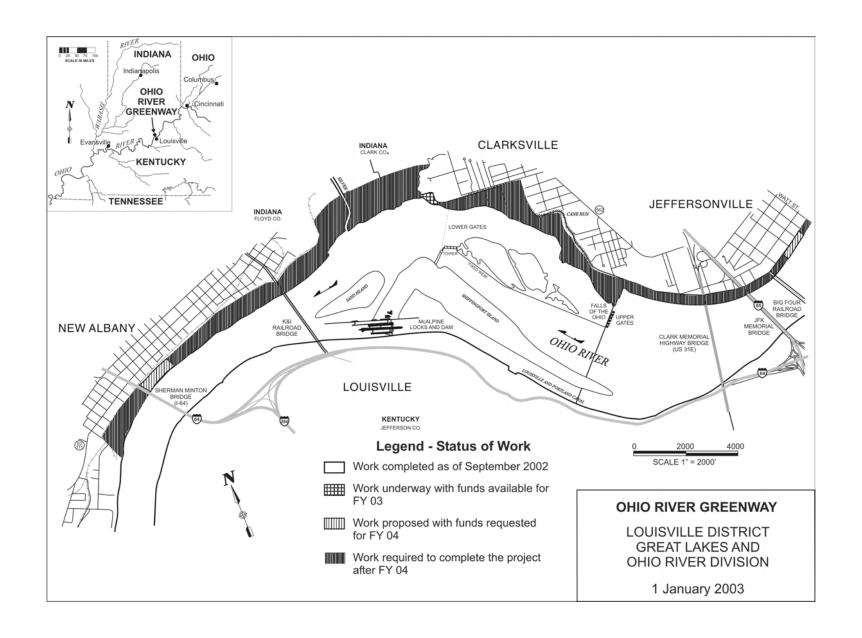
Requirements of Local Cooperation	Payments During Construction and Reimbursements	Annual Operation Maintenance, Repair Rehabilitation and Replacement Costs
Provide lands, easements, rights of way, relocations, and dredged material disposal areas.	5,000,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	1,180,000	
Pay approximately 32 percent of the costs allocated to access facilities, as reduced for credit to allow for non-Federal work, to bring the total non-Federal share of costs to 50 percent and bear all costs of operation, maintenance, repair, rehabilitation and replacement of access facilities.	11,320,000	809,000
Total Non-Federal Costs	\$ 17.500.000	\$ 809.000

STATUS OF LOCAL COOPERATION: There are four non-Federal sponsors: The Ohio River Greenway Development Commission, the City of New Albany, the Town of Clarksville, and the City of Jeffersonville. Each has sent in Letters of Intent, dated 17 December 1999, indicating their williness to enter into binding agreements with the Federal Government to fulfill the required items of local cooperation. The Project Cooperation Agreement is scheduled for execution in FY 2003. The local sponsors have spent about \$1 million on the access road to this point, using mainly local funds. The Greenway Commission and local communities have recently obtained over \$3 million in grant funds that will be used for the project. The sponsors' source of funding will mainly come from state and local sources.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$17,500,000 is the same as the latest estimate (\$17,500,000) presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: No Environmental Impact Statement is required. An Environmental Assessment and Finding of No Significant Impact (FONSI) was completed in January 2000. Additional environmental work was completed and a supplement to the original FONSI was signed in November 2002.

OTHER INFORMATION: The Ohio River Greenway Project was approved for construction by the ASA (CW) in April 2000. Funds to initiate preconstruction, engineering and design were first appropriated in FY 1993 and funds to initiate construction were first appropriated in FY 2001. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2007, to TBD.



3 February 2003

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APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Metropolitan Louisville, Beargrass Creek, KY (Continuing)

LOCATION: The project is located in eastern Jefferson County in the suburbs of Louisville, Kentucky, along the South Fork Beargrass Creek and Buechel Branch.

DESCRIPTION: The project consists of construction of eight detention basins, about 2,000 linear feet of channel improvement, and 1,400 linear feet of floodwall/levee on the South Fork of Beargrass Creek and Buechel Branch. The project will provide protection to 830 structures (combination of residential and commercial). Of those structures, 314 will be removed from the 100-year flood plain. The 100-year flood will be reduced an average of 1.5 feet, as a result of project implementation. All work is programmed.

AUTHORIZATION: The Water Resource Development Act of 1999.

REMAINING BENEFIT-COST RATIO: 10.1 to 1 at 6 7/8 percent.

TOTAL BENEFIT-COST RATIO: 2.8 to 1 at 6 7/8 percent.

INITIAL BENEFIT-COST RATIO: 2.7 to 1 at 6 7/8 percent (FY 2001)

BASIS OF BENEFIT-COST RATIO: Benefits are from the Final Feasibility Report dated September 1997 at October 1996 price levels.

SUMMARIZED FINANCIA	L DATA		PHYSICAL STATUS PERCENT COMPLETION (1 Jan 2003) COMPLETE SCHEDULE		
Estimated Federal Cost		\$ 7,998,000	Entire Project 20 TBD		
Estimated Non-Federal Cost		4,306,000	PHYSICAL DATA		
Cash Contribution Other Costs	1,239,000 3,067,000		Floodwall/Levee 1,400 feet Channel Improvement 2,000 feet Detention Basins 8		
Total Estimated Project Co	ost	\$12,304,000			
Division: Great Lakes & O	hio River		District: Louisville Metropolitan Louisville, Beargrass Creek, KY		

ACCUM.
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SUMMARIZED FINANCIAL DATA (Continued)

Allocations to 30 September 2002 \$ 1,067,000

Conference Allowance for FY 2003 TBD

Allocations through FY 2003 TBD

Allocation Requested for FY 2004 1,400,000 TBD

Programmed Balance to Complete after FY 2004 TBD Unprogrammed Balance to Complete after FY 2004 0

JUSTIFICATION: Approximately 26 percent of Jefferson County's population resides in the Beargrass Creek Basin. In recent years, the great majority of the 60 square mile basin has been developed. The value of development in the study area is estimated at \$500,000,000. Stream reaches of the South Fork of Beargrass Creek and Buechel Branch are subject to inundation as a result of insufficient in-bank flowage areas and increased runoff from upstream development. Upstream industrial, commercial, and residential development has contributed to increased storm runoff and flooding on South Fork Beargrass Creek and Buechel Branch. Major floods occurred in the basin in 1960, 1964, 1970, 1973, and 1997. Based on October 1995 prices and conditions, a 100-year frequency flood in the basin would result in approximately \$55 million in damages to 929 structures. The March 1997 flood inflicted an estimated \$8 million in damages within the basin. The average annual benefits amount to \$2,368,000, all for flood damage reduction.

The average annual benefits are \$2,368,000, all flood control.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Complete Phase I contract	354,000
Continue Phase II contract	808,000
Continue Fish & Wildlife	24,000
Planning, Engineering and Design	40,000
Construction Management	174,000

Total \$ 1,400,000

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Beargrass Creek, KY

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payments during Construction and Reimbursements	Annual Operation Maintenance, Repair Rehabilitation and Replacement Costs
Provide lands, easements, rights of way, and dredged material	2,925,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	142,000	
Pay 10 percent of the costs allocated to flood control to bring the total non-Federal share of flood control costs to 35 percent and bear all costs of operation, maintenance, repair, and rehabilitation.	1,239,000	24,000
Total Non-Federal Costs	\$ 4,306,000	\$ 24,000

The non-Federal sponsor has agreed to make all required payments concurrently with project construction.

STATUS OF LOCAL COOPERATION: The non-Federal cost sharing partner is the Louisville and Jefferson County Metropolitan Sewer District (MSD). MSD cost shared the feasibility phase of the project. A PED phase cost sharing agreement with MSD was executed in January 1998. The Chief of Engineers report approved the project in May 1998. A Project Cooperation Agreement (PCA) with MSD was executed in September 2001.

The current non-Federal cost estimate of \$4,306,000, which includes a cash contribution of \$1,239,000, is an increase of \$24,000 from the non-Federal cost estimate of \$4,282,000 noted in the PCA, which included a cash contribution of \$1,182,000. This increase is due to price escalation of the project's construction features. Our analysis of the non-Federal sponsor's financial capability to participate in the project affirms that the sponsor has a reasonable and implementable plan for meeting its financial commitment.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Beargrass Creek, KY

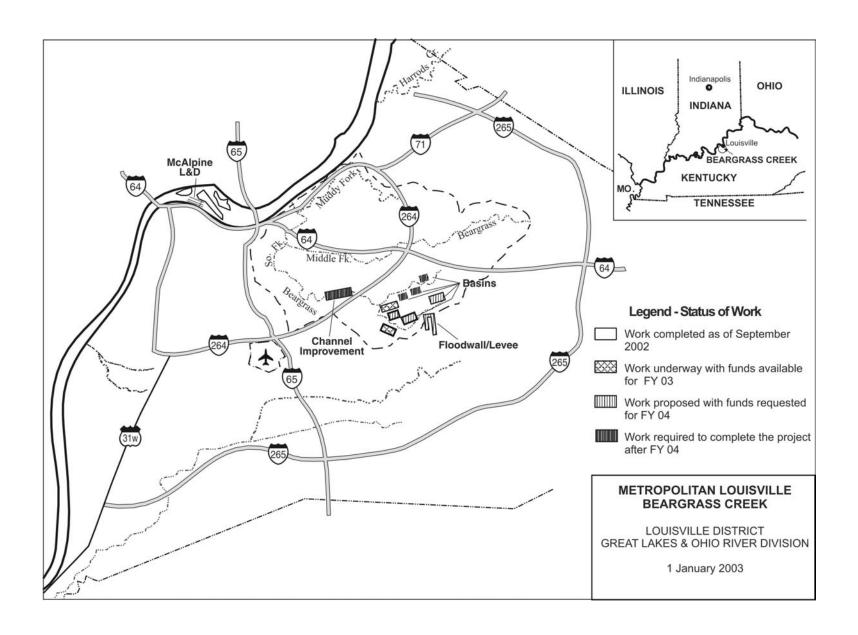
COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$7,998,000 is a decrease of \$87,000 in the last estimate (\$8,085,000) presented to Congress (FY2003). The change includes the following items:

Item	Amount
Price Escalation on Construction Features	(\$ 87,000)
Total	(\$ 87,000)

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An environmental assessment was prepared and circulated for review. A Finding Of No Significant Impact was signed in September 1997.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1997. Funds to initiate construction were appropriated in FY 2001. The first construction contract for the project was awarded in August 2002. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2004, to TBD.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Beargrass Creek, KY



APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Metropolitan Louisville, Pond Creek, Kentucky (Continuing)

LOCATION: The project is located in the central and eastern portions of the 126 square mile Pond Creek watershed, in southern Jefferson County, Kentucky.

DESCRIPTION: The project consists of construction of detention basin storage at the Melco Detention Basin on Northern Ditch and the Vulcan Quarry Detention Basin on Fishpool Creek; channel enlargement along approximately 2.4 miles of Pond Creek and 1.5 miles of Northern Ditch; a multipurpose maintenance road/hiking trail along the Pond Creek channel improvement; and a fifteen acre wetlands environmental restoration component at a site owned by the local sponsor. All work is programmed.

AUTHORIZATION: The Water Resources Development Act of 1996.

REMAINING BENEFIT-REMAINING COST RATIO: 8.5 to 1 at 7 3/4 percent.

TOTAL BENEFIT-COST RATIO: 1.8 to 1 at 7 3/4 percent.

INITIAL BENEFIT-COST RATIO: 2.8 to 1 at 7 3/4 percent (FY 1997).

BASIS OF BENEFIT-COST RATIO: Benefits are from the Project Design Memorandum, dated May 1995, at 1995 price levels.

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		\$15,300,000	Entire Project	61	Sep 2004
Estimated Non-Federal Cost Cash Contribution			PHYSICAL DATA		
Other Costs	4,000,000		Channel Improve Detention Basin S		3.9 miles 2 @ 1,600 acre/ft
Total Estimated Project Cost		\$20,800,000	Wetlands Env. R Maint. Rd/Hike-B Permanent Ease	estoration ike Trail	15 acres 3.4 miles 65.7 acres

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Pond Creek, KY

SUMMARIZED FINANCIAL DATA (Continued) ACCUM. PCT OF EST. FED. COST Allocations to 30 September 2002 \$ 8.407.000 Conference Allowance for FY 2003 TBD Allocation for FY 2003 4.393.000 1/ Allocations through FY 2003 12.800.000 84 Allocation Requested for FY 2004 100 2.500.000 Programmed Balance to Complete after FY 2004 0 Unprogrammed Balance to Complete after FY 2004 0

JUSTIFICATION: The project is located in southwestern Jefferson County, Kentucky, and drains an area of approximately 71 square miles. Approximately 5,500 structures are located within the highly urbanized Pond Creek flood plain. Due to rapid residential and commercial development within the area, properties along Pond Creek and tributaries now have only a two-year level of protection, leaving residential, commercial, and industrial structures vulnerable to disastrous flash floods. The flood of record occurred in March 1964. A recurrence of this flood today would result in damages of approximately \$106 million, under 1995 price levels and conditions of development. The most recent flood experienced in the basin was between a 50 and 100-year flood event, occurred in March 1997, and caused damages to residential and commercial properties in the basin that totaled approximately \$201 million.

Average annual benefits are as follows:

Annual Benefits	Amount
Flood Control Recreation	3,999,000 76,000
Total	\$ 4.075.000

^{1/} Reflects a reprogramming to the project of \$2,393,000.

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Channel Improvements	2,110,000
Planning, Engineering, and Design	160,000
Construction Management	230,000

Total \$ 2,500,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payments during Construction and Reimbursements	Annual Operation Maintenance, Repair Rehabilitation and Replacement Costs
Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal area.	4,000,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	0	
Pay approximately 5 percent of the costs allocated to flood control to bring the total non-Federal share of flood control costs to approximately 26 percent and bear all costs of operation, maintenance, repair, replacement, and rehabilitation of flood control facilities, which meets mandatory 5% cash requirement plus total of all LERRD credits.	978,000	68,000
Pay one-half of the separable costs allocated to recreation and bear all costs to operate, maintain, repair, replace, and rehabilitate recreation facilities.	383,000	1,000
Pay approximately 23 percent of the costs allocated to environmental restoration to bring the total non-Federal share of environmental restoration costs to 25 percent and bear all costs of operation, maintenance, repair, replacement, and rehabilitation of environmental restoration facilities.	139,000	1,000
Total Non-Federal Costs	\$ 5,500,000	\$ 70,000

The non-Federal sponsor has agreed to make all payments concurrently with project construction.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Pond Creek, KY

STATUS OF LOCAL COOPERATION: The non-Federal cost sharing partner is the Louisville and Jefferson County Metropolitan Sewer District (MSD).

The Project Cooperation Agreement was executed in March 1998. The current non-Federal cost estimate of \$5,500,000, which includes a cash contribution of \$1,500,000, is an increase of \$258,000 from the non-Federal cost estimate of \$5,242,000 noted in the Project Cooperation Agreement, which included a cash contribution of \$1,074,000. This increase in cost is due to the application of bioengineering techniques and a more detailed cost estimate for the Channel Improvement along Northern Ditch. The non-Federal sponsor continues to demonstrate they have a reasonable and implementable plan for meeting their financial commitment.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$15,300,000 is an increase of \$1,776,000 from the latest estimate (\$13,524,000) presented to Congress (FY 2003). This change includes the following items.

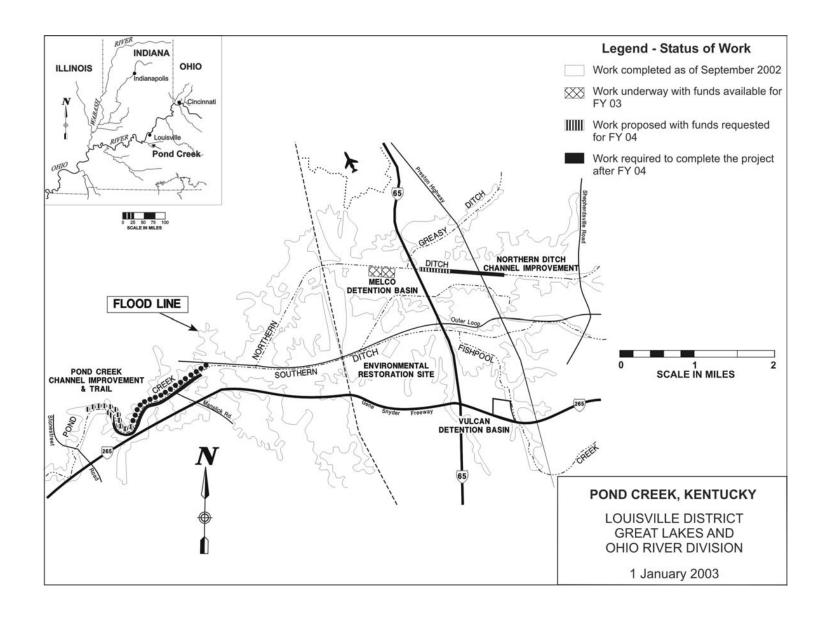
Item	Amount
Post Contract Award and Other Estimating Adjustments	\$1, 776,000
Total	\$1.776.000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Assessment and a Finding of No Significant Impacts (FONSI) have been signed and were included in the Interim Feasibility Report, dated March 1994. In addition, a Section 404(b)(1) Evaluation has been completed and a 401 Water Quality Certification has been obtained from the Kentucky Division of Water.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1994 and funds to initiate construction were appropriated in FY 1997.

The scheduled completion date of September 2004 is unchanged from the latest completion date presented to Congress (FY 2003).

Division: Great Lakes & Ohio River District: Louisville Metropolitan Louisville, Pond Creek, KY



APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Metropolitan Region of Cincinnati, Duck Creek, Ohio (Continuing)

LOCATION: The project encompasses 3.2 miles of stream reach in the City of Cincinnati and the Village of Fairfax, in Hamilton County, Ohio.

DESCRIPTION: The recommended plan consists of 1,200 feet of stream channel relocation; 8,500 feet of streambank protection; 3,300 feet of earth levees; 7,100 feet of concrete floodwalls; 1,100 feet of triple box culvert, widening of one railroad bridge; demolition of one abandoned highway bridge; one pump station for interior drainage; one automated floodgate closure; one emergency access road; one flood emergency warning system; 32.1 acres of permanent easements and 10.0 acres of temporary easements; and environmental mitigation. All work is programmed.

AUTHORIZATION: Water Resources Development Act of 1996 and Water Resources Development Act of 2000.

REMAINING BENEFIT-COST RATIO: 1.4 to 1 at 7 3/4 percent.

TOTAL BENEFIT-COST RATIO: 1.01 to 1 at 7 3/4 percent.

INITIAL BENEFIT-COST RATIO: 1.3 to 1 at 7 3/4 percent (FY 1997).

BASIS OF BENEFIT-COST RATIO: Project Design Memorandum for Duck Creek, Ohio, dated January 1996, at January 1996 price levels. An economic update of the Duck Creek, Cincinnati, OH study was completed in September 2000 at October 2000 price levels.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Region of Cincinnati, Duck Creek, OH

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost		\$ 32,355,000	Entire Project	18	TBD
Estimated Non-Federal Cost Cash Contribution Other Costs	1,828,000 2,372,000	4,200,000	Levees	PHYSICAL DATA 3,300 ft.	Access Road 1
Total Estimated Project Cost		\$ 36,555,000	Floodwalls Channel Relocation Streambank Protection Triple Box Culvert	7,100 ft. 1,200 ft. 8,500 ft. 1,100 ft.	Widen R.R. Bridge 1 Pump Station 1 Permanet Easements 32 ac Demolish Hwy Bridge
			ACCUM. PCT OF EST. FED. COST		
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003		\$ 6,369,000 TBD TBD TBD	TBD		
Allocation Requested for FY 2004 Programmed Balance to Complete after Unprogrammed Balance to Complete at		8,500,000 TBD 0	TBD		

Division: Great Lakes & Ohio River District: Louisville Metropolitan Region of Cincinnati, Duck Creek, OH

JUSTIFICATION: Duck Creek suffers from frequent flash flooding affecting roads, utilities, 9 residential properties, and 32 commercial/industrial properties valued at \$62.4 million; threatens over 1,000 jobs in manufacturing; and disrupts production. The most recent out-of-bank flooding causing property damage occurred in June 1997 and July 2001. Threatening flood conditions occurred 5 times in a four-month period during 1991, with plant closures during at least one of these events. The potential for frequent damaging floods and for less frequent but catastrophic flooding exists during any given year. Additional significant flooding occurred in 1982 and 1985. These two floods are estimated to have been a 25-year frequency event and a 10-year frequency event, respectively. A recurrence of these floods would cause damages estimated at \$5.6 million and \$1.2 million, respectively, in 1995 price levels and conditions of development. The recommended plan reduces average annual flood damages by 94 percent. The recommended plan provides a uniform 100-year level of protection for the three protected areas.

Average annual benefits are as follows

Annual Benefits	Amount
Flood Control Advance Bridge Replacement Location	3,874,000 64,000 9,000
Total	\$ 3,947,000

FISCAL YEAR 2004: The requested amount will be applied as follows:

Land Payments	1,000,000
Complete Phase III Construction Contract	6,785,000
Planning, Engineering and Design	68,000
Construction Management	647,000
-	
Total	\$ 8,500,000

NON-FEDERAL COSTS: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986 and modified by the Water Resources Development Act of 2000, the non-Federal sponsor must comply with the requirements listed below.

Requirements of Local Cooperation	Payments During Const/Reimb	Annual OMRR&R Costs
Provide lands, easements, rights of way, and borrow and excavated or dredged material disposal areas.	2,291,000	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	81,000	
Pay approximately 5 percent of the costs allocated to flood control to bring the total non-Federal share of flood control costs to 25 percent and bear all costs of operation, maintenance, repair, replacement, and rehabilitation. of flood control facilities.	1,828,000	55,000
Total Non-Federal Costs	\$ 4,200,000	\$ 55,000

The non-Federal sponsors have agreed to make all payments concurrently with project construction.

STATUS OF LOCAL COOPERATION: The non-Federal sponsors are the City of Cincinnati, Ohio, and the Village of Fairfax, Ohio. The terms of the Project Cooperation Agreement (PCA) have been discussed with each sponsor and each understands its responsibilities. The PCA was executed in December 1997. A PCA amendment to support the new authorized total project cost and maximum non-federal cost is scheduled to be executed in July 2003. In May, 1993, the Cincinnati City Council approved a rate increase by the Cincinnati Stormwater Management Utility that included funds for the city's share of project costs. The Village of Fairfax has acquired and is acquiring the necessary Right-of-Way for construction of the project.

The current non-Federal cost estimate of \$4,200,000, which includes a cash contribution of \$1,828,000, is an increase of \$12,000 from the last non-Federal cost estimate presented to Congress (FY 2003). The cost estimate reflects the project's modified authorization in the Water Resources Development Act of 2000 which capped the non-Federal sponsor's costs.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Region of Cincinnati, Duck Creek, OH

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$32,355,000 is a decrease of \$590,000 from the latest estimate (\$32,945,000) presented to Congress (FY 2003). The change includes the following items:

Item Amount

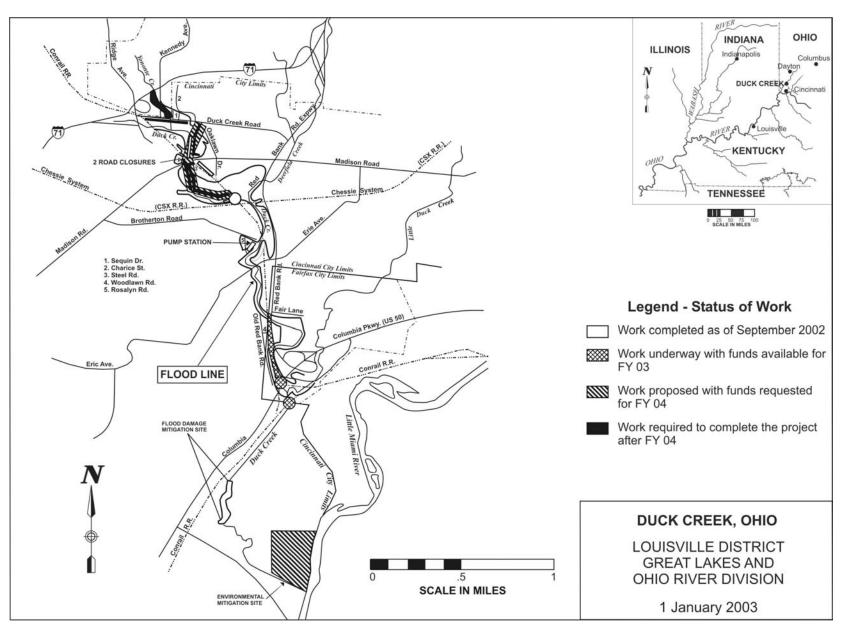
Price Escalation on Construction Features \$ (590,000)

Total \$ (590,000)

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Assessment was conducted and a Finding of No Significant Impact was signed on 14 January 1994.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1994. Funds to initiate construction were appropriated in FY 1997. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2007, to TBD.

Division: Great Lakes & Ohio River District: Louisville Metropolitan Region of Cincinnati, Duck Creek, OH



APPROPRIATION TITLE: Construction, General - Local protection (Flood Control)

PROJECT: Mill Creek, Ohio (Continuing)

LOCATION: The project is located along a 17.5 mile length of Mill Creek in Hamilton County, Ohio, and the 3/4-mile length of East Fork in Hamilton County, Ohio. Lower Mill Creek is in the commercial and industrial heart of the Cincinnati metropolitan area in the southwestern portion of the State.

DESCRIPTION: The project includes 17.5 miles of channel improvement, 2 miles of levees, 3 pumping plants, modification of highway and railroad bridges, and the addition of 2 pumping units at the existing Mill Creek barrier dam. A paved greenbelt within the channel right-of-way will be provided for high-density urban oriented recreational use. Approximately, 6.1 miles of channel improvement and the addition of 2 pumping units at the existing barrier dam have been completed. A General Reevaluation Report, the Flood Warning System, and "punch list" items for Section 3 are programmed. All other remaining work is unprogrammed.

AUTHORIZATION: 1970 Flood Control Act

REMAINING BENEFIT-REMAINING COST RATIO: 3.8 to 1 at 5-5/8 percent.

TOTAL BENEFIT-COST RATIO: 3.3 to 1 at 5-5/8 percent.

INITIAL BENEFIT-COST RATIO: 3.2 to 1 at 5-5/8 percent (FY 1975).

BASIS OF BENEFIT-COST RATIO: Design Memorandum No. 3, approved in September 1975 at 1975 price levels.

Division: Great Lakes & Ohio River District: Louisville Mill Creek, OH

SUMMARIZED FINANCIAL DATA			STATUS (1 Jan 2003)	PHYSICAL PERCENT COMPLETE	COMPLETION SCHEDULE
Estimated Federal Cost Programmed Construction Unprogrammed Construction	\$ 163,000,000 111,850,000 51,150,000		General Reevaluation Report Section 3 Punch List Items Flood Warning System Entire Project	69 0 0 56	TBD TBD TBD Indefinite
Estimated Non-Federal Cost Programmed Construction Cash Contribution 71,000	\$ 51,210,000 15,843,000		PHYSICAL DA		macimile
Other Costs 15,772,000 Estimated Non-Federal Cost Unprogrammed Construction Cash Contributions 4,867,000 Other Costs 30,500,000	35,367,000		Channel Improvements Levees Pumping Plants Relocate Railroad Bridges Relocate Hwy & Road Bridges	17.5 miles 2.0 miles 3 7 17	
		ACCUM PCT OF EST. FED. COST			
Total Estimated Programmed Construction Co Total Estimated Unprogrammed Construction Total Estimated Project Cost					
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations thru FY 2003	\$ 103,278,000 TBD TBD TBD	TBD			
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 20 Unprogrammed Balance to Complete after FY		TBD 100			
Division: Great Lakes & Ohio River	Distri	ct: Louisville			Mill Creek, OH
	3 Fel	oruary 2003			114

JUSTIFICATION: The project would protect the Mill Creek Basin from residual flood damages resulting from headwater flooding. On the average, damaging headwater floods occur about twice yearly. As the result of the small size of the Mill Creek drainage area, the basin is potentially subject to severe flooding from any type storm with limited time available for evacuation. The area contains about 3,000 acres of intensively developed land and a broad mix of industrial, commercial, and residential development, and a complex network of transportation facilities including roads, streets, interstate highways, extensive railroad yards, truck and spur lines, and utilities. Large volumes of toxic substances are stored and utilized in the flood plain by manufacturers. Flammable and volatile liquids are also present in the flood plain in large quantities. Flooding creates extreme hazards in the areas of public health, fire, and explosion. The value of property in the flood plain of Hamilton County is about \$2.7 billion (1989 values). About 5,000 persons reside and 20,000 persons are employed in the flood plain. However, the entire population of the metropolitan area of Cincinnati is adversely affected by Mill Creek flooding. The maximum flood of record occurred in March 1913 and the January 1959 flood was the second largest flood of record. A recurrence of the January 1959 flood, under current conditions of development, would cause damages estimated at \$26,661,000 (1992 values). Damaging floods also occurred in September 1979, May 1996, April 1998, and July 2001.

The project would provide protection for the developed portions of the Mill Creek flood plain for a flood having a frequency of one or more occurrences every 100 years from the barrier dam (stream mile 0.3) upstream to I-275 (stream mile 18.2). In addition, the project would provide specific-use recreation activities along the length of the Mill Creek main stem in Hamilton County.

Average annual benefits are estimated at \$18,865,000 based on January 1975 price levels.

Annual Benefit	Amount
Flood Control Recreation	18,295,000 570,000
Total	\$ 18.865.000

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue General Reevaluation Report	3,357,000
Complete Section 3 Construction Punch List Items	543,000
·	
Total	\$ 3,900,000

Division: Great Lakes & Ohio River District: Louisville Mill Creek, OH

NON-FEDERAL COSTS: In accordance with cost sharing and financing concepts reflected in the 1970 Flood Control Act, the non-Federal sponsor must comply with the requirements listed below:

Requirements of Local Cooperation	Payments During Construction and Reimbursements	Annual Operation, Maintenance, and Replacement Costs
Provide all of lands, easements, and right-of-way of flood control facilities	16,278,000	
Modify or relocate bridges (except railroad bridges) and utilities where necessary in construction of the project and bear all costs for operation, maintenance and replacement of flood control facilities.	29,994,000	120,000
Pay a portion of the cost of the recreation facilities which, when added to the cost of recreation lands, would amount to 50 percent of the separable cost of recreation.	4,938,000	119,000
Total Non-Federal Costs	\$ 51,210,000	\$ 239,000

STATUS OF LOCAL COOPERATION:

The Millcreek Valley Conservancy District is the responsible cooperating agency for all required assurances.

An assurance agreement covering local cooperation requirements for the project consistent with Section 221 of the 1970 Flood Control Act and the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 was executed by the Conservancy District on 6 February 1975 and for the Secretary of the Army on 28 March 1975. A recreation cost-sharing contract was executed by the Conservancy District 25 February 1975 and approved for the Secretary of the Army 28 May 1975.

Ohio Department of Natural Resources permits relating to construction of the various sections of the entire Mill Creek project have been either procured or waived.

The authorization-of-entry for Sections 7A, 3, 2, 4A, and 1 were executed by the local sponsor 20 September 1979, 14 December 1981, 20 June 1983, 24 March 1986, and 11 September 1989, respectively.

An Operation and Maintenance Agreement, wherein the Millcreek Valley Conservancy District assumes responsibility for sections for which "punch list" work has been completed, was executed on 7 August 1998.

Division: Great Lakes & Ohio River District: Louisville Mill Creek, OH

STATUS OF LOCAL COOPERATION: (continued)

A Contributed Funds Memorandum of Agreement, wherein non-Federal public agencies contribute toward the costs of the General Reevaluation Report, was executed on 7 August 1998.

The current non-Federal cost estimate of \$51,210,000 (Oct 92) is an increase of \$30,396,000 over the approved estimate (\$20,814,000 - Oct 74) in the local cooperation agreement. This increase is based on price level adjustments.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$163,000,000 is the same as the latest estimate presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: A final Environmental Impact Statement (survey scope) was filed with CEQ on 7 October 1970, and included in the Authorization Report, House Document No. 91-413. The final Environmental Impact Statement was filed with CEQ on 17 October 1974.

OTHER INFORMATION: Funds to initiate preconstruction planning were appropriated in FY 1972 and funds to initiate construction were appropriated in FY 1975. The local sponsor will be required to cost share the remaining GRR expenditures beginning in FY 04.

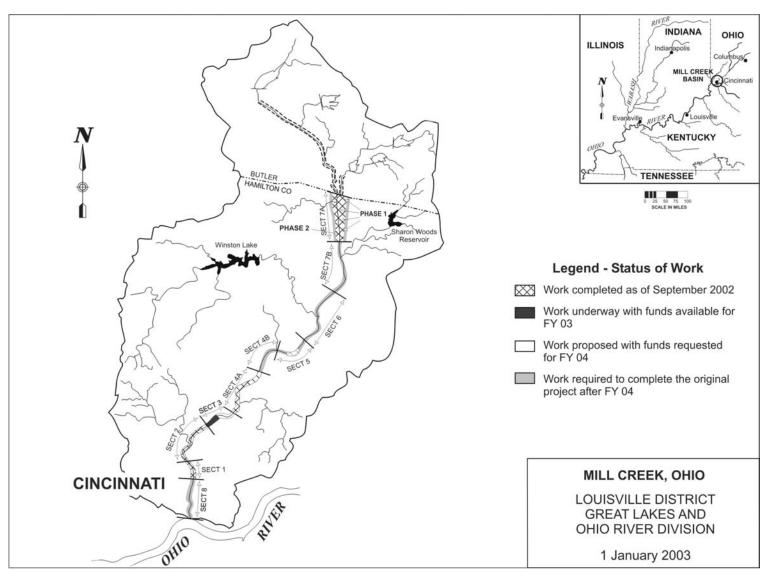
The scheduled completion date for the General Reevaluation Report has changed from the latest presented to Congress (FY 2003), June 2004, to TBD.

The scheduled completion date for the Section 3 Punch List Items has changed from the latest presented to Congress (FY 2003), September 2004, to TBD.

The scheduled completion date for the Flood Warning System has changed from the latest presented to Congress (FY 2003), not identified, to TBD.

The scheduled physical completion for the entire project remains indefinite.

Division: Great Lakes & Ohio River District: Louisville Mill Creek, OH



Division: Great Lakes & Ohio River District: Louisville Mill Creek, OH

APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: West Columbus, Ohio (Continuing)

LOCATION: The project is located in Columbus, Ohio, adjacent to the downtown area, in Franklin County.

DESCRIPTION: The proposed project consists of a 7.2 mile levee/floodwall system; 14 gate closures; interior drainage facilities; two new pump stations; and reworking of two existing pump stations. The protected area contains approximately 2,800 acres and is completely urban with a mix of residential, industrial, and commercial development. The project will provide protection from the standard project flood. All work is programmed.

AUTHORIZATION: The Water Resources Development Act of 1988, as amended by the Water Resources Development Act of 1990.

REMAINING BENEFIT-REMAINING COST RATIO: Not applicable because construction of the project is substantially complete.

TOTAL BENEFIT-COST RATIO: Not applicable because construction of the project is substantially complete.

INITIAL BENEFIT-COST RATIO: 1.3 to 1 at 8 3/4 percent (FY 1993).

BASIS OF BENEFIT-COST RATIO: Benefits are from the Design Refinement Report, dated August 1997.

Division: Great Lakes & Ohio River District: Huntington West Columbus, OH

SUMMARIZED FINANCIAL DATA			ACCUM. PCT OF EST FED. COST	STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICA L COMPLETION SCHEDULE
Estimated Federal Cost		\$ 97,000,000		Entire Project	90	TBD
Estimated Non-Federal Cost Cash Contributions Other Costs	7,032,000 29,168,000	36,200,000		PHYSICAL Levee and Floor 7.2 miles of leve	dwall: ee/floodwall.	
Total Estimated Project Cost		\$133,200,000		Heights range fr Gate Closures: Lands and Dam Pump Stations: Reworking of 2	14 (1,100 feet) ages: 198 acres 2 (120,000 & 80	s easement 0,000 GPM)
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003		\$ 89,441,000 TBD TBD TBD	TBD			
Allocation Requested for FY 2004 Programmed Balance to Complete a Unprogrammed Balance to Complete		1,800,000 TBD 0	TBD			

JUSTIFICATION: The West Columbus area contains a mix of residential, commercial, and industrial development that is subject to flooding. The maximum flood of record occurred in March, 1913, and the second most severe and the most recent flooding at Columbus occurred in January, 1959. A recurrence of these floods would cause damages of \$430,300,000 and \$325,800,000 respectively. The current value of the property subject to flooding is \$540,000,000.

Average annual benefits for the project total \$24,050,000, all of which are for urban flood damage reduction.

Division: Great Lakes & Ohio River District: Huntington West Columbus, OH

FISCAL YEAR 2004: The requested amount will be applied as follows:

costs of operation, maintenance, repair, replacement and rehabilitation of

flood control facilities.

Continue Levee and Floodwall Construction	1,470,000
Planning, Engineering and Design	180,000
Construction Management	150,000

Total \$ 1,800,000

NON-FEDERAL COST: In accordance with the cost sharing and financing concepts reflected in the Water Resource Development Act of 1986, the non-federal sponsor must comply with the requirements listed below.

sponsor must comply with the requirements listed below.	Payments during Construction And	Annual Operation, Maintenance, Repair, Replacement, and
Requirements of Local Cooperation	Reimbursements	Rehabilitation
Provide lands, easements, rights of way, and borrow and dredged or excavated material disposal areas.	4,960,000	
Modify or relocate buildings, utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	24,208,000	
Pay one-half of the separable costs allocated to recreation (except recreational navigation) and bear all costs of operation, maintenance, repair, replacement, and rehabilitation of recreation facilities.	377,000	
Pay approximately 5 percent of the cost allocated to flood control to bring the total non-Federal share of flood control costs to 25 percent, and bear all	6,655,000	85,000

Total Non-Federal Costs \$36,200,000 \$185,000

The non-Federal sponsor has agreed to make all required payments concurrently with project construction.

Division: Great Lakes & Ohio River District: Huntington West Columbus, OH

STATUS OF LOCAL COOPERATION: The non-Federal sponsor is the city of Columbus, Ohio. A Project Cooperation Agreement with the City was executed in July 1993, and was amended in January 1999 to include the downstream realignment area. The City has provided \$6,805,000 of its cash contribution.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$97,000,000 is unchanged from the latest estimate (\$97,000,000) presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) were signed in November 1986. A revised EA and FONSI were signed in April 1993.

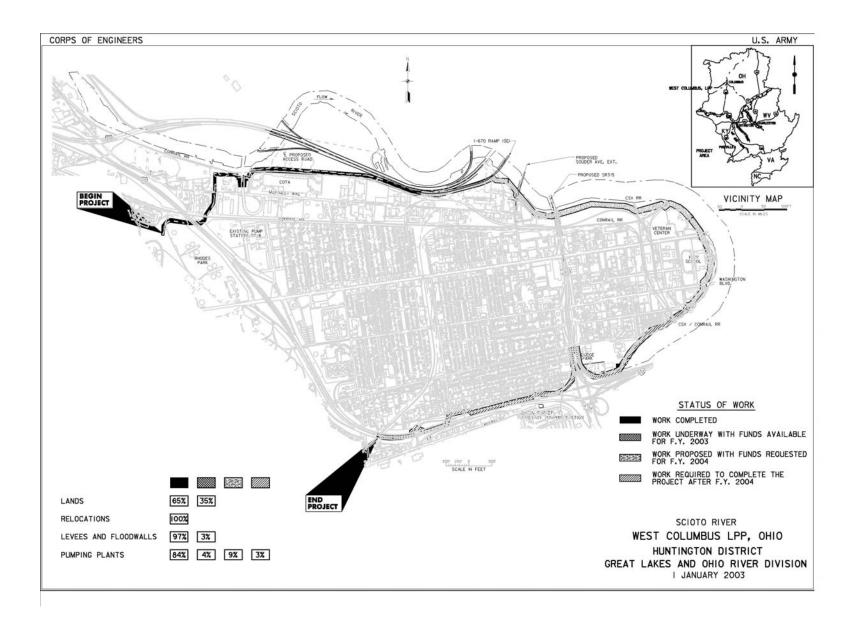
OTHER INFORMATION: Funds to initiate preconstruction engineering and design were appropriated in FY 1989 and funds to initiate construction were appropriated in FY 1993.

Award of the first construction contract, Dry Run Levee Phase IA, occurred in September 1993. A contract with the Ohio Department of Transportation (ODOT) for the construction by ODOT of gate closures at Souder Avenue and S.R. 315 and for modification of the I-670 embankment was executed on March 3, 1994. ODOT will accomplish this work as part of its ongoing highway construction efforts within the project area. The contract for Phase IB of Dry Run levee was awarded in April, 1995. The contract for Phase IIA was awarded in March 1996. The contract for Phase IIC was awarded in August 1997. The contract for Phase IID was awarded in July 1998. The contract for Phase IIIA (South) was awarded in July 1999. The contract for Phase IIIA (North) was awarded in January 2000. The contract for Phase IIIC was awarded in November 2000. The contract for Phase IIIB was awarded in March 2001. The contract for reliable power was awarded in December 2001.

A new downstream alignment for the project was approved in December 1997 due to engineering necessity.

The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2004, to TBD.

Division: Great Lakes & Ohio River District: Huntington West Columbus, OH



APPROPRIATION TITLE: Construction, General - Local Protection (Flood Control)

PROJECT: Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, West Virginia, Virginia and Kentucky (Continuing)

LOCATION: The Levisa and Tug Forks are situated in southwestern West Virginia, southeastern Kentucky, and western Virginia and converge at Fort Gay, West Virginia, and Louisa, Kentucky, to form the Big Sandy River. The Levisa Fork Basin encompasses 2,326 square miles. The project area includes the mainstem Levisa Fork from Louisa, Kentucky, to Grundy, Virginia (approximately 100 stream miles excluding Fishtrap Lake), and the mainstem Russell Fork from its confluence with the Levisa Fork, to and including Haysi, Virginia (approximately 31 stream miles). Projects are located in Pike County, Floyd County, Johnson County, and Lawrence County in Kentucky and Buchanan County, Dickenson County in Virginia. The Tug Fork Basin encompasses 1,555 square miles. The project area is comprised of approximately 140 stream miles from Louisa, Kentucky to Welch, West Virginia. Projects are located in Pike County, and Martin County in Kentucky, and Wayne County, Mingo County and McDowell County in West Virginia. The Upper Cumberland River Basin encompasses 1,977 square miles. Approximately 132 stream miles of the Cumberland River from its origin at Harlan, Kentucky, to Cumberland Falls are included in the project area. Projects are located in Harlan County, Knox County, Bell County, and Whitely County in Kentucky.

DESCRIPTION: The project includes levees, floodwalls, pump stations, and a flood control reservoir; the floodproofing and evacuation of structures located in the flood hazard areas; and development of relocation sites for the affected areas. Work is complete at Williamson, West Virginia; Barbourville, Kentucky; South Williamson, Kentucky; and Pineville, Kentucky. Work at Matewan, West Virginia, Hatfield Bottom area of Matewan, West Virginia, Wayne County, West Virginia, McDowell County, West Virginia, Upper and Lower Mingo County, West Virginia, Harlan, Kentucky, Williamsburg, Kentucky, Pike County (Tug Fork), Kentucky, Martin County, Kentucky, Middlesborough, Kentucky, Clover Fork, Kentucky, Town of Martin, Kentucky, and Grundy, Virginia are under way with available funds. Detailed Project Reports for Pike County (Tug Fork) Tributaries, Kentucky, Pike County (Levisa Fork), Kentucky, Floyd County, Kentucky, Buchanan County, Virginia, Dickenson County, Virginia, Levisa Fork and Upper Cumberland River Basins are under way with available funds. Flood warning systems for the Tug and Levisa basins are under way with available funds. The Grundy, Virginia, non-structural project and the Harlan County, Kentucky, Detailed Project Report are programmed. All other work is unprogrammed. (See status and completion schedule).

AUTHORIZATION: The Energy and Water Development Appropriations Act, 1981, and Water Resources Development Act of 1986.

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

REMAINING BENEFIT-REMAINING COST RATIO: Not Applicable. 1/

TOTAL BENEFIT-COST RATIO: Not Applicable. 1/

INITIAL BENEFIT-COST RATIO: Not Applicable. 1/

BASIS OF BENEFIT-COST RATIO: Not Applicable. 1/

1/ An overall project benefit-cost ratio was not computed because the Congress, in the Energy and Water Development Appropriations Act, 1981, found that the benefits attributable to the flood control measures authorized by the Act exceed their costs.

SUMMARIZED FINANCIAL DATA

Estimated Federal Cost Programmed Construction Unprogrammed Construction		\$ 842,851,000 1,382,874,000	\$2,225,725,000 <u>2</u> /
Estimated Non-Federal Cost			128,515,000 <u>3</u> /
Programmed Construction		\$ 42,680,000	
Cash Contributions	\$ 10,480,000		
Other Costs	32,200,000		
Unprogrammed Construction		\$ 85,835,000	
Cash Contributions	85,835,000		
Other Costs	0		

Division: Great Lakes & Ohio River District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

SUMMARIZED FINANCIAL DATA (Continued)		ACCUM. PCT. OF EST FED. COST
Total Estimated Programmed Construction Cost Total Estimated Unprogrammed Construction Cost Total Estimated Project Cost	\$ 885,531,000 \$ 1,468,709,000 \$ 2,354,240,000	
Allocations to 30 September 2002 Budget Request for FY 2003 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	793,088,000 <u>2</u> / 10,400,000 TBD TBD TBD	TBD
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004	15,000,000 TBD TBD	TBD

^{2/} Includes payment of \$850,000 from the Department of Treasury Judgment Fund for a claim at Matewan, WV.

District: Huntington / Nashville

^{3/} Does not include the following non-Federal contributions, which are not part of the authorized project cost: Pineville, KY -- \$17,691,000 in costs allocated to the highway portion of an integrated highway/floodwall element constructed in cooperation with the Commonwealth of Kentucky for Pineville & Wallsend, Kentucky.

STATUS	PERCENT	COMPLETION	STATUS	PERCENT	COMPLETION
(1 Jan 2003) Structural Measures	COMPLETE	SCHEDULE	(1 Jan 2003) Levisa Fork Basin (Continued)	COMPLETE	SCHEDULE
Pineville, KY	100		Johnson Co., Ky	0	Indefinite
Williamson Area, WV	100		Dickenson Co., VA	90	Sep 2003
South Williamson, KY	100		Lawrence Co. (Levisa), KY	0	Indefinite
Barbourville, KY (Cutoff)	100		Lawrence oo. (Levisa), iti	O	machinic
Barbourville, KY Levee/Fldwll	100		Tug Fork Basin:		
Matewan, WV	99	Sep 2003	Matewan, WV	100	
Harlan, KY	99	Indefinite	South Williamson, KY	100	
Williamsburg, KY	100	c	Lower Mingo Co., WV	100	
Middlesborough, KY	98	Indefinite	Upper Mingo Co., WV	100	
Haysi Dam, VA	0	Indefinite	Pike Co. (Tug Fork), KY	100	
City of Cumberland	0	Indefinite	Tug Fork GDM	100	
Levisa Basin Flood Warning System	100		Matewan, Hatfield Bottom, WV	100	
Tug Basin Flood Warning System	100		Martin Co., KY	100	
			Wayne Co., WV	100	
Detailed Project Reports			McDowell Co., WV	100	
Upper Cumberland Basin:			Lower Mingo Co., WV, Tribs	100	
Harlan, KY	100		Pike Co., KY, Supplement	95	Aug 2003
Williamsburg, KY	100		Lawrence Co. (Tug Fork), KY	0	Indefinite
Middlesborough, KY	100				
Upper Cumberland River Basin	100		Nonstructural Measures		
Clover Fork, KY	100		Williamson, WV	100	
City of Cumberland, KY	100		Matewan, WV	100	
Harlan Co., KY	100		Pineville, KY	100	
Bell Co., KY	25	Indefinite	South Williamson, KY	100	
Knox Co., KY	0	Indefinite	Barbourville, KY	100	
Whitley Co., KY	0	Indefinite	Matewan, Hatfield Bottom, WV	99	Indefinite
Levisa Fork Basin:			Williamsburg, KY	98	Indefinite
Grundy, VA	100		Harlan, KY	98	Indefinite
Levisa Basin/Haysi Dam GPS	100		Lower Mingo Co., WV	93	Indefinite
Buchanan Co., VA	98	Jun 2003	Pike County, KY (Tug Fork)	98	Indefinite
Town of Martin, KY	100	la deficite	Middlesborough, KY	98	Indefinite
Pike Co. (Levisa Fork), KY	53 15	Indefinite	Upper Mingo County, WV	93	Indefinite
Floyd Co. Ky	15	Indefinite	Levisa Basin, VA & KY	0	Indefinite

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

STATUS	PERCENT	COMPLETION
(1 Jan 2003)	COMPLETE	SCHEDULE
Nonstructural Measures (continued):		
Grundy, VA	37	TBD
Martin County, KY	58	Indefinite
Wayne County, WV	90	Indefinite
McDowell County, WV	15	Indefinite
Clover Fork, KY	18	Indefinite
Town of Martin	3	Indefinite
City of Cumberland	1	Indefinite
Harlan County, KY	0	Indefinite

PHYSICAL DATA			
WILLIAMSON AREA Williamson CBD	Floodwall: Height - 22 ft. avg. Length - 3,900 ft. Pump Stations 2 ea. 30,000 and 70,000 GPM	Lands and Damages: Acres - 18.24 fee 5.76 easement Type – Urban	Relocations: Railroad, highways, city and public utilities
WILLIAMSON AREA West Williamson	Floodwall: Height - 17 ft. avg. Length - 6,237 ft. Pump stations: 1 ea. @ 40,000 GPM	Lands and Damages: Acres - 25.72 fee 31.03 easement Type – Urban	Relocations: Railroad, highways, city and public utilities
WILLIAMSON AREA Snagging and Clearing	N/A	Lands and Damages: Acres - 86.62 easement Type – Riverbank	N/A

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

PHYSICAL DATA (continued)			
MATEWAN	Floodwall/fill: Height - 13 ft. avg. Length - 2,500 ft. Pump stations: 1 ea. @ 18,000 GPM	Lands and Damages: Acres - 45.41 fee 48.88 easement	Relocations: Highway 49 and bridge, Route 9, fire station, town hall and utilities
SOUTH WILLIAMSON	Floodwall: Height - 21 ft. avg. Length - 2,700 ft. Pump Stations: 1 ea. @ 12,000 GPM	Lands and Damages: Acres - 21.52 fee 5.46 easement Type – Residential	Relocations: School cafeteria, highways, county and public utilities
PINEVILLE	Floodwall/Levee/Highway Height - 25 ft. avg. Length - 7,800 ft. Wallsend Levee Height - 25 ft. avg. Length - 4,300 ft.	Lands and Damages: Acres – 118 Type – Urban	Relocations: Wallsend Bridge, Pine Street Bridge
BARBOURVILLE Cutoff	High Flow Diversion Width - 150 ft. Depth - 40 ft. max. Length - 5,000 ft.	Lands and Damages: Acres – 96 Type – Agricultural	Relocations: Tye Bend Rd Bridge
BARBOURVILLE Levee/Floodwall	Levee/Floodwall Height - 26 ft. avg. Length - 19,536 ft.	Lands and Damages: Acres – 144 Type – Urban	Relocations: Highway 459 Bridge
HARLAN (Phase I) Harlan Tunnels	Diversion Tunnels Length - 4 ea @ 2000 ft.	Lands and Damages: Acres – 12 Type – Urban	Relocations: KY Hwy 38 Bridge KY Hwy 72 Bridge

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

PHYSICAL DATA (continued)			
HARLAN (Phase II) Harlan Floodwall	Floodwall/Levee Length - 4,875 ft Height - 24 ft	Lands and Damages: Acres – 16 Type – Urban	Relocations: KY Hwy 11
HARLAN (Phase III) Loyall/Rio Vista Diversion/Levee/Floodwall	Diversion Width - 120 ft channel Depth - 300 ft. max. Length - 3,800 ft. Levee/Floodwall Height - 24 ft. Length - 8,600 ft.	Lands and Damages: Acres – 225 Type – Urban	Relocations: KY Hwy 840 Bridge Park Drive Bridge Highway 413 CSX Railway
WILLIAMSBURG	Levee/Floodwall Height - 15 ft. avg. Length - 4,800 ft.	Lands and Damages: Acres – 23 Type – Urban	Relocations: Public utilities
MIDDLESBOROUGH	Channel Length - 5.2 mi.	Lands and Damages: Acres – 132	Relocations: Public utilities

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

PHYSICAL DATA (continued)				
HAYSI DAM	Concrete Arch Dam: Height - 202 ft. Length - 825 ft. Spillway: Type - Ogee Weir Length - 170 ft. Discharge - 151,000 cfs Reservoir: Flood Control 28,400 ac.ft. Conservation 8,870 ac.ft. Total 37,270 ac.ft.	Lands and Damages: Acres - 8,335 fee Type - Rural residential & subsistence farms Improvements- Predominantly farm buildings/ residential	Relocations: Virginia Secondary Hwy. 609 Public utilities	
NON STRUCTURAL	Primarily voluntary relocations from flood prone areas and floodproofing of unprotected development suitable for such measures. Specific physical data determined during preparation of project reports for each individual project.			
DETAILED PROJECT REPORTS	Detailed project reports that currently are under way for other locations in the authorized project area will be continued or completed.			

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

JUSTIFICATION: Tug Fork - Historically, repeated flooding in the Tug Fork Valley has brought extensive damage to homes and other developments. During the past 38 years, major floods occurred in January, 1957, March, 1963, March, 1967, April, 1977, and May, 1984. The 1977 flood was the flood of record along much of the Tug Fork. This devastating flood caused valley-wide damages approaching \$200 million at 1977 price levels. Six hundred homes were totally destroyed and 4,700 homes were flooded. Physical losses from direct damage to non-residential buildings and contents exceeded \$41 million. Over half of all damages occurred in Mingo County, West Virginia. Pike County, Kentucky had about \$45 million in damages. The May, 1984 flood resulted in an estimated \$117 million in damages along the Tug Fork. As in previous floods, the extensive bituminous coal mining industry of the basin was disrupted due to direct damage, interrupted transportation, and lost time because of diversions of the work force to flood fighting and cleanup.

Levisa Fork - The same repeated flooding characteristic of the Tug Fork has plagued the Levisa Fork area. During the April, 1977 flood, damages amounted to approximately \$93 million at 1977 price levels. The May, 1984 flood caused an additional \$90 million in losses along the mainstem of the Levisa Fork and its primary upstream tributary, Russell Fork. Impacts on residential properties, commercial and transportation facilities, and the mining industry were similar to those described in the Tug Fork areas.

Upper Cumberland - Flooding continues to bring recurring damage to the Upper Cumberland area. Total damages in all categories amounted to \$34.7 million for this area during the April, 1977 event. The Pineville element protects about 185 acres of urban land containing structures valued at \$25.7 million. At Barbourville, the existing project was sandbagged during the April, 1977 flood event, preventing major losses to some 700 acres of urban land containing structures valued at \$52.4 million. The currently unprotected area is a mix of agriculture and urban land and contains structures valued at over \$6.0 million. During the 1977 flood, no area of Harlan County escaped damage, and four persons drowned and approximately 1,800 persons were left homeless. Total flood damage and associated costs came to almost \$31 million.

The following counties qualify as areas of "substantial and persistent" unemployment: West Virginia - Mingo, McDowell, Wayne; Kentucky - Martin, Pike, Lawrence, Floyd, Johnson, Bell, Harlan, Knox, Whitley; Virginia – Buchanan, Dickenson.

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

FISCAL YEAR 2004: The requested amount will be applied as follows:

Non Structural Measures

Grundy, Virginia

Voluntary Floodproofing & Acquisition	3,700,000
Continue Relocations	240,000
Continue Construction	8,580,000
Planning, Engineering and Design	1,880,000
Construction Management	600,000

Total \$ 15,000,000

PROJECT COSTS: Project elements under construction on 30 April 1986 are exempted from construction cost sharing in accordance with the Water Resources Development Act of 1986. These elements are Williamson Area, West Virginia; South Williamson, Kentucky; Matewan, West Virginia; and Pineville, Kentucky. The Harlan and Barbourville elements were exempted from construction cost sharing by Title I, Section 103 of Water Resources Development Act of 1986. The Hatfield Bottom area of Matewan, West Virginia, was included in the Matewan, West Virginia, element area by the Energy and Water Development Appropriations Act, 1991, Public Law 101-514, and as such, is exempt from cost sharing.

Construction cost sharing is required for all other elements in accordance with the Water Resources Development Act of 1986. The sponsor of each project element for which construction is initiated after 30 April 1986 must provide lands, easements, rights-of-way, and borrow and excavated or dredged material disposal areas; modify or relocate buildings, utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the element; pay a cash contribution of no less than 5 percent of the costs allocated to structural flood control to bring the total non-Federal share of structural flood control costs to 25 percent; and bear 25 percent of non-structural flood control costs, including the value of real estate interests and relocations contributed by the sponsor. In accordance with Section 103(m) of the Act, these requirements are subject to the ability of the non-Federal sponsor to pay.

In accordance with Section 202, Energy and Water Development Appropriations Act, 1981 and Public Law 99-662, non-Federal interests must bear all costs of operation, maintenance, and replacement of completed facilities.

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

FEDERAL COSTS:	Payments During Construction	Payments During Construction	Annual Operation,
Desired Flores of	and Reimbursements	and Reimbursements	Maintenance, and
Project Element	(Funded/Programmed Work)	(Unprogrammed Work)	Replacement Costs
Williamson Area, WV	\$105,786,000	\$ 0	\$ 0
Williamson Area, WV NS	24,004,000	0	0
Matewan, WV	57,474,000	0	0
Matewan, WV NS	10,129,000	0	0
Hatfield Bottom, Matewan, WV	8,300,000	0	0
South Williamson, KY	25,873,000	0	0
South Williamson, KY NS	28,233,000	0	0
Pineville, KY	48,406,000	0	0
Pineville, KY NS	4,011,000	10,000	0
Barbourville, KY	32,019,000	100,000	0
Barbourville, KY NS	4,179,000	212,000	0
Harlan, KY	159,626,000	674,000	0
Harlan, KY NS	17,217,000	4,083,000	0
Grundy, VA NS	80,300,000	0	0
Lower Mingo County, WV NS	44,258,000	800,000	0
Williamsburg, KY	18,781,000	1,549,000	0
Williamsburg, KY NS	1,663,000	47,000	0
Pike County, KY NS	29,267,000	48,953,000	0
Upper Mingo County, WV NS	13,115,000	700,000	0
Middlesborough, KY	31,725,000	205,000	0
Middlesborough, KY NS	1,250,000	355,000	0
Clover Fork, KY NS	12,633,000	37,367,000	0
City of Cumberland Str	2,778,000	14,900,000	0
City of Cumberland NS	0	10,822,000	0
Harlan County, KY	3,122,000	45,518,000	0
Martin County, KY NS	18,858,000	22,142,000	0
Wayne County, WV NS	6,592,000	1,205,000	0
Haysi Dam, VA & KY	82,000	129,288,000	0
Levisa Basin, VA & KY NS	0	612,099,000	0
McDowell County, WV NS	14,084,000	165,086,000	0
Levisa Fk Flood Warning Syst	400,000	0	0
Tug Fk Flood Warning Syst	400,000	0	0
Town of Martin, KY NS	3,531,000	86,611,000	0
Other costs 1/	34,755,000	200,148,000	0
Total Federal Cost 1/	\$ 842,851,000	\$ 1,382,874,000	<u> </u>
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^{1/} Pre-WRDA 86 costs plus costs for unapproved reports, which will be included in project costs upon report approval.

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

NON-FEDERAL COSTS:	Payments During	Payments During	
Designat Flores ent	Constr & Reimb	Construction & Reimbursements	Annual Operation,
Project Element	(Funded/Programmed Work)	(Unprogrammed Work)Replacement Costs	¢74 000
Williamson Area, WV	\$ 0	\$ 0	\$71,000
Williamson Area, WV NS	70.000	0	0
Matewan, WV	76,000	0	30,000
Matewan, WV NS	0	0	0
Hatfield Bottom, Matewan, WV	0	0 0	0 000
South Williamson, KY	0	0	8,000
South Williamson, KY NS		-	20,000
Pineville, KY NS	0	0 0	20,000
Pineville, KY NS	0	-	20,000
Barbourville, KY	0	0	20,000
Barbourville, KY NS	0	0	0
Harlan, KY	0	0	0
Harlan, KY NS	0 000 000	0	20,000
Grundy, VA NS	32,200,000	0	21,500
Lower Mingo County, WV NS	2,330,000	42,000	0
Williamsburg, KY	988,000	82,000	20,000
Williamsburg, KY NS	88,000	2,000	0
Pike County, KY NS	1,540,000	2,580,000	0
Upper Mingo County, WV NS	690,000	37,000	0
Middlesborough, KY	1,670,000	10,000	27,000
Middlesborough, KY NS	66,000	19,000	0
Clover Fork, KY NS	664,000	1,968,000	0
City of Cumberland Str	0	930,000	0
City of Cumberland NS	0	570,000	0
Harlan County, KY	0	2,560,000	0
Martin County, KY NS	992,000	1,163,000	0
Wayne County, WV NS	347,000	63,000	0
Haysi Dam, VA & KY	0	12,198,000	486,400
Levisa Basin, VA & KY NS	0	41,584,000	0
McDowell County, WV NS	801,000	8,629,000	0
Levisa Fk Flood Warning Syst	21,000	0	0
Tug Fk Flood Warning Syst	21,000	0	0
Town of Martin, KY NS	186,000	4,558,000	0
Other costs	00,000	8,840,000	0
Total Non-Federal Cost	\$ 42,680,000	\$85,835,000	\$723,900

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

STATUS OF LOCAL COOPERATION:

The City of Barbourville, Kentucky signed a Section 221 Agreement for the Barbourville element on February 14, 1984, to become project sponsor for operation and maintenance after construction is complete.

The City of Pineville, Kentucky signed a Section 221 Agreement for the Pineville element on February 19, 1983, to become project sponsor for operation and maintenance. The Corps and the Commonwealth of Kentucky executed a cost-sharing arrangement for construction of the four-lane highway portion of the project.

The County of Harlan, Kentucky signed a Section 221 Agreement on October 20, 1988, to become project sponsor for operation and maintenance after construction is complete.

Mingo County, West Virginia, signed a Section 221 Agreement on March 2, 1983, agreeing to operate and maintain features of the project within its jurisdiction. The City of Williamson, Town of Matewan and Mingo County entered into a sub-agreement transferring certain responsibilities to the City.

Pike County, Kentucky, signed a Section 221 Agreement on August 1, 1983, agreeing to act as non-Federal sponsor for features of the project within its jurisdiction.

A Project Cooperation Agreement for the Lower Mingo County, West Virginia, element was executed on November 17, 1992, with the Mingo County Commission.

A Project Cooperation Agreement for the Williamsburg, Kentucky element was executed on March 10, 1995, with the City of Williamsburg, Kentucky.

A Project Cooperation Agreement for the Pike County, Kentucky element was executed on October 14, 1994, with the Pike County Kentucky Fiscal Court.

A Project Cooperation Agreement for the Upper Mingo County, West Virginia element was executed on December 20, 1995, with the Mingo County, West Virginia Commission.

A Project Cooperation Agreement for the Middlesborough, Kentucky element was executed on January 18, 1996 with the City of Middlesborough, Kentucky.

A Project Cooperation Agreement for the Martin County, Kentucky element was executed on April 21, 1997 with the Martin County Fiscal Court.

A Project Cooperation Agreement for the Wayne County, West Virginia element was executed in April 1998 with the Wayne County Commission.

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

STATUS OF LOCAL COOPERATION (cont.):

A Project Cooperation Agreement for the Grundy, Virginia nonstructural element was executed in August 1998 with the Town of Grundy, Virginia and the Virginia Department of Transportation (VDOT).

A Supplement to the Project Cooperation Agreement to add the Mingo County Tributaries to the Upper Mingo County West Virginia element was executed in June 1999 with the Mingo County Commission.

A Project Cooperation Agreement for the McDowell County, West Virginia element was executed in September 1999 with the McDowell County Commission.

A Project Cooperation Agreement Amendment #1 for McDowell County, West Virginia element was executed in December 2001 with the McDowell County Commission.

A Project Cooperation Agreement for the Clover Fork, Kentucky element was executed on April 13, 2000 with Harlan County, Kentucky.

A Project Cooperation Agreement for the Town of Martin, Kentucky element was executed in June, 2001 with the Floyd County Fiscal Court.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$2,225,725,000 is an increase of \$281,993,000 from the latest estimate (\$1,943,732,000) presented to Congress (FY 2002). This change includes the following items.

Item	Amount
Price Escalation on Real Estate Authorized Modifications	4,484,000 277,509,000
Total	\$ 281,993,000

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: Tug Fork - The final Environmental Impact Statement (EIS) was filed with the Environmental Protection Agency (EPA) on December 3, 1982.

Pineville - The final EIS was filed with EPA on December 22, 1982.

Barbourville - The Finding of No Significant Impact (FONSI) was signed on February 1, 1984.

Harlan – The final EIS was filed with EPA on April 22, 1988. The Record of Decision was signed on August 8, 1988.

Williamsburg - The FONSI was signed on May 19, 1994.

Middlesborough - The FONSI was signed on June 9, 1995.

Town of Martin – The FONSI was signed on August 8, 2000.

Detailed Project Reports - EIS's for other areas will be scheduled as studies proceed.

OTHER INFORMATION: Funds to initiate construction were appropriated in FY 1981. The Urgent Supplemental Appropriations Act, 1984 (Public Law 98-332) provided \$21,000,000 for nonstructural measures at this project.

The scheduled completion date of September 2003 for Matewan, WV is a slippage from the latest completion date of September 2002 presented to Congress. This change is because the project requires completion of property transfers.

The scheduled completion date of June 2003 for the Buchanan County, Virginia Detailed Project Report is a slippage from the latest completion date of February 2002 presented to Congress. This change is due to additional time required to resolve flood protection alternatives for the schools.

The scheduled completion date of September 2003 for the Dickenson County, Virginia Detailed Project Report is a slippage from the latest completion date of September 2002 presented to Congress. This change is due to the added requirement for phase 2 HTRW investigations in the Clinchco area.

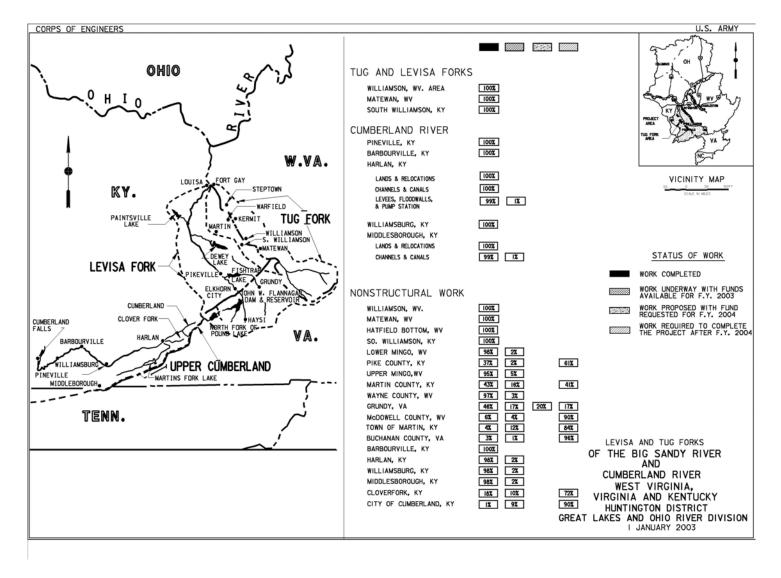
The scheduled completion date of August 2003 for the Pike County, Kentucky Supplement to the Detailed Project Report is a slippage from the latest completion date of July 2002 presented to Congress. This change is due to additional time required to determine flood protection alternatives for four public structures.

The scheduled completion date for Grundy, VA has changed from the latest presented to Congress (FY 2003), September 2005 to TBD.

Division: Great Lakes & Ohio River

District: Huntington / Nashville

Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY



Levisa and Tug Forks of the Big Sandy River and Upper Cumberland River, WV, VA and KY

APPROPRIATION TITLE: Construction, General – Major Rehabilitation (Flood Control)

PROJECT: Mississinewa Lake, Indiana (Major Rehabilitation) (Continuing)

LOCATION: The project is located on the Mississinewa River, a tributary of the Wabash River, in Wabash, Miami, and Grant Counties in north central Indiana. The lake is located approximately 65 air miles north of Indianapolis, Indiana.

DESCRIPTION: The project will provide for increased stability of the dam by constructing a concrete cut-off wall in 2,600 feet of embankment to a depth ranging from 150 to 180 feet penetrating 5 feet into the rock foundation. The cut-off wall will prevent further loss of the embankment or overburden foundation materials into the untreated rock foundation and restore the project to full operational capability. The existing reservoir was constructed to reduce flood damages downstream of the project within the upper Wabash River Basin, and was placed in operation in October 1967. The dam is earth fill and is 8,000 feet long and 140 feet high. The top elevation of the dam is 797 feet msl. Maximum flood control storage capacity is 368,400 acre-feet.

AUTHORIZATION: Flood Control Act of 1958.

REMAINING BENEFIT-COST RATIO: 4.5 to 1 at 6 7/8 percent.

TOTAL BENEFIT-COST RATIO: 1.7 to 1 at 6 7/8 percent.

INITIAL BENEFIT-COST RATIO: 1.9 to 1 at 6 7/8 percent (FY 2001).

BASIS OF BENEFIT-COST RATIO: Mississinewa Dam Major Rehabilitation Report, dated May 2000 with July update.

Division: Great Lakes & Ohio River

District: Louisville

Mississnewa Lake, IN

(Major Rehabilition)

SUMMARIZEDFINANCIAL DATA			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost	\$ 55,000,000		Entire Project	32	TBD
Estimated Non-Federal Cost Cash Contribution Other Costs	0 0 0		-	PHYSICAL DATA	
Total Estimated Project Cost	\$ 55,000,000	ACCUM. PCT OF EST FED. COST	Drainage A Flood Poo Winter Poo Summer P	779 ft (ol 712 ft (mi 12,830 acres) 1,280 acres) 3,180 acres)
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$ 11,574,000 TBD TBD TBD	TBD			
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004		TBD			

JUSTIFICATION: The Mississinewa Lake Project was completed in October 1967. During the latter stages of construction in late 1966, a boil was discovered at the toe of the dam. Remedial actions were taken and the boil area was stabilized. Lateral drains were installed and the seepage was thought to be eliminated. In April 1988, settlement of roadway guardrail and the road across the top of the dam first appeared. A monitoring program was effected and has continued to the present. Recent subsurface investigations have revealed a 0.8-foot settlement of a portion of the dam. In May 1999, monitoring wells on the dam revealed that downward stresses are actively compressing the embankment in the area of the settlement and threatening the integrity of the structure. Analysis of the problem has shown the upper layer of rock foundation contains excessive voids requiring pre-treatment with grout to enable the cut-off wall excavation to then proceed with

Division: Great Lakes & Ohio River

District: Louisville

Mississnewa Lake, IN

(Major Rehabilition)

JUSTIFICATION (continued)

minimal slurry loss. The dam itself remains stable at this time; however, the settlement is continuing and is considered a "failure in progress", which under certain circumstances could become an "emergency" due to possible dam failure. Completion of the project on a capability schedule is imperative to minimize risks associated with subjecting the dam to additional wet seasons with potentially damaging high flood pool elevations. The rehabilitation project includes the placement of a 2,600-foot concrete cut-off wall along the full right embankment. It will extend to depths ranging from 150 to 180 feet, penetrating 5 feet into the rock foundation.

Average annual benefits are as follows:

Annual Benefits	Amount
Flood Control Recreation	7,156,000 1,066,000
Total	\$ 8,222,000

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Construction Contract	,884,000
Planning, Engineering, and Design	226,000
Construction Management	890,000

Total \$21,000,000

NON-FEDERAL COSTS: None. The dam safety assurance modification is being performed at full Federal expense.

STATUS OF LOCAL COOPERATION: None

Division: Great Lakes & Ohio River

District: Louisville

Mississnewa Lake, IN

(Major Rehabilition)

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$55,000,000 is an increase of \$15,000,000 form the latest estimate (\$40,000,000) presented to Congress (FY 2003). The change includes the following items:

Item	Amount
Post contract award and other estimating adjustments	\$ 15,000,000
Total	\$ 15,000,000

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The proposed action consists of a repair to an existing operating project. An Environmental Assessment has been completed and a Finding of No Significant Impact was signed by the District Engineer 14 Mar 2000. An Environmental Impact statement is not required.

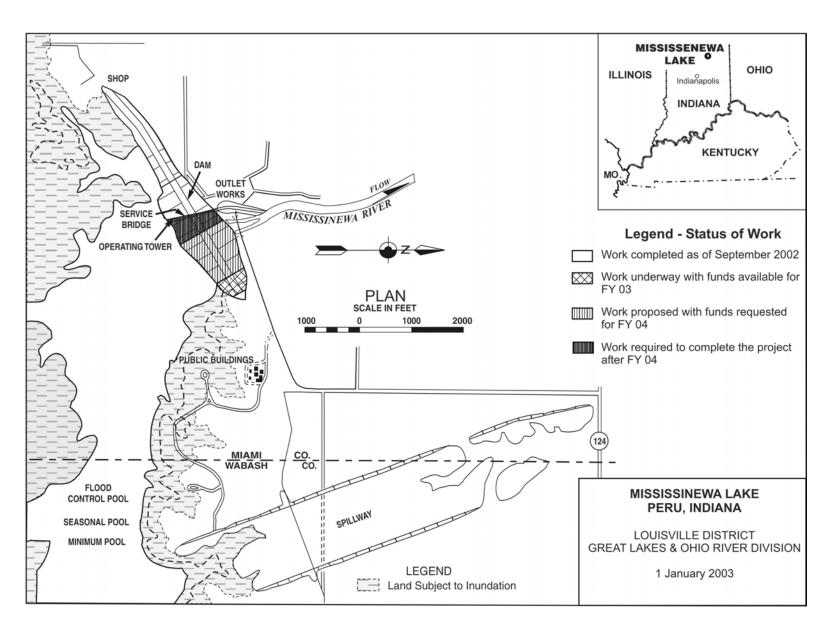
OTHER INFORMATION: Funds to initiate construction were provided in FY 2001. The Mississinewa Lake Dam Safety/Major Rehabilitation Report was approved by ASA (CW) 5 January 2001. The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2005, to TBD.

Division: Great Lakes & Ohio River

District: Louisville

Mississnewa Lake, IN

(Major Rehabilition)



APPROPRIATION TITLE: Construction, General - Dam Safety Assurance (Flood Control)

PROJECT: Dewey Lake, Kentucky (Dam Safety Assurance) (Continuing)

LOCATION: The project is located in Floyd County, Kentucky, on Johns Creek of Levisa Fork, a tributary of the Big Sandy River, 79.4 miles above the mouth of the Big Sandy River.

DESCRIPTION: The dam safety assurance project for Dewey Lake involves raising the effective height of the dam with a 3-foot high concrete parapet wall, and raising the main dike with compacted earth; adding a 125-foot wide auxiliary spillway; and restricting the existing spillway to its original design capacity by providing vertical restriction walls on each side. The existing project was completed in 1949. All work is programmed.

AUTHORIZATION: Flood Control Act of 1938.

REMAINING BENEFIT-REMAINING COST RATIO: Not Applicable.

TOTAL BENEFIT-COST RATIO: Not Applicable.

INITIAL BENEFIT-COST RATIO: Not Applicable.

BASIS OF BENEFIT-COST RATIO: Not Applicable.

SUMMARIZED FINANCIAL DATA

Original Project

Actual Federal Cost \$7,845,547

Actual Non-Federal Cost 0

Total Actual Original Project Cost \$7,845,547

Division: Great Lakes & Ohio River District: Huntington Dewey Lake, KY (Dam Safety Assurance)

SUMMARIZED FINANCIAL DATA (Continued)		ACCUM. PCT. OF EST. FED. COST	STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Project Modification			Hydrologic Modification	n 95	Sep 2004
Estimated Federal Cost	\$21,100,000		Р	HYSICAL DATA	A
Estimated Non-Federal Cost	0				keg Dike) approximately arth; add an auxiliary
Total Estimated Modification Cost	\$21,100,000		spillway with	a crest elevation	n of 688.0; provide e existing spillway
Total Estimated Project Cost	\$ 28,945,547		to restrict dis		n capacity; and add
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003 Allocations through FY 2003	\$ 18,594,000 TBD 560,000 19,130,000	<u>1</u> / 91	5 100t parape	. wan across da	
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004	1,946,000 0 0	100			

^{1/} Reflects a \$40,000 reduction assigned as savings and slippage.

JUSTIFICATION: According to current engineering criteria, spillway capacities at Dewey Lake are inadequate. The ability of the dam to resist failure when overtopped is of particular concern. Hydrology and hydraulic studies show that failure of the 118-foot high Dewey Lake Dam could result in a major catastrophe. The project is constructed of rolled earth fill with a central impervious core and has a maximum crest length of 913 feet. According to current engineering studies, the dam could only contain 61 percent of the probable maximum flood, the largest flood that could be reasonable expected. Such a situation leads to an extremely high risk of dam failure.

Division: Great Lakes & Ohio River District: Huntington Dewey Lake, KY (Dam Safety Assurance)

FISCAL YEAR 2004: The requested funds will be applied as follows:

Complete Hydrologic Modification	1,090,000
Complete Planning, Engineering and Design (Hydrologic)	452,000
Complete Planning, Engineering and Design (Seismic)	206,000
Complete Construction Management	198,000
Total	\$ 1,946,000

NON-FEDERAL COSTS: None. The dam safety assurance modification is being performed at full Federal expense.

STATUS OF LOCAL COOPERATION: Not applicable.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$21,100,000 for the dam safety assurance modification is an increase of \$2,500,000 from the latest estimate (\$18,600,000) presented to Congress (FY 2003). This change includes the following items:

Item	Amount
Price Escalation on Construction Features Post Contract Award and Other Estimating Adjustments	285,000 2,215,000
Total	\$2,500,000

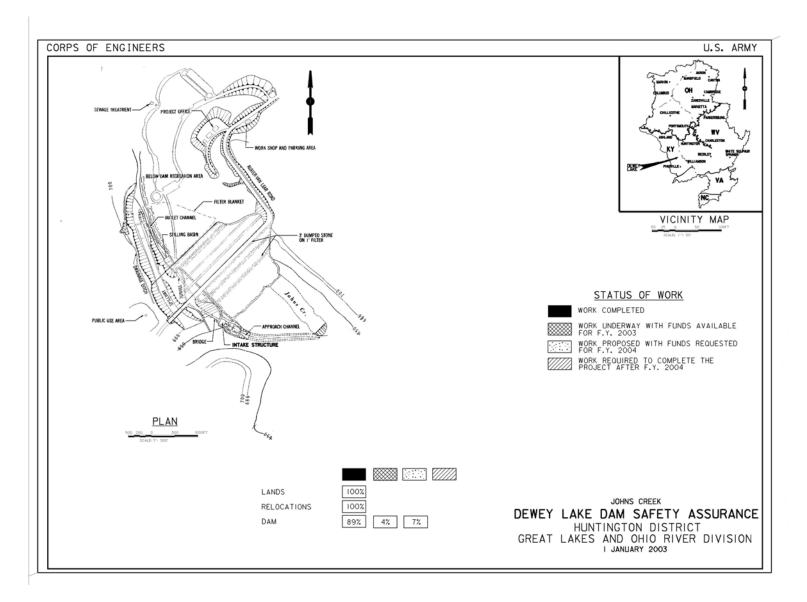
STATUS OF ENVIRONMENTAL IMPACT STATEMENT: An Environmental Assessment was completed in December 1996 and resulted in a Finding of No Significant Impact. A supplemental Environmental Assessment for relocation of State Route 302 and additional spoil sites was completed in January 2001, and resulted in a Finding of No Significant Impact.

OTHER INFORMATION: Funds to initiate preconstruction engineering and design were reprogrammed to the project in FY 1994 from funds appropriated for the initiation of dam safety projects.

The Dewey Lake, Kentucky Spillway Deficiency Report for the Dam Safety Assurance Program was approved by the Assistant Secretary of the Army for Civil Works on June 23, 1994.

Division: Great Lakes & Ohio River District: Huntington Dewey Lake, KY (Dam Safety Assurance)

OTHER INFORMATION (continued):		
The Dewey Lake project is located in an earthquake zon given a significant seismic event (maximum credible ear detail what, if any, seismic corrections are needed.		
The scheduled completion date of September 2004 for	the hydrologic correction is unchanged from the lates	st completion date presented to Congress (FY2003).
Division: Great Lakes & Ohio River	District: Huntington	Dewey Lake, KY (Dam Safety Assurance)
	3 February 2003	148



APPROPRIATION TITLE: Construction, General - (Dam Safety Assurance)

PROJECT: Bluestone Lake, West Virginia (Dam Safety Assurance) (Continuing)

LOCATION: The dam is located in southern West Virginia, in Summers County, on the New River two miles south of Hinton, West Virginia. It is situated 2.5 miles downstream from the confluence of the New and Bluestone Rivers, and 0.8 miles upstream from the confluence of the New and Greenbrier Rivers.

DESCRIPTION: The dam modifications include stability improvements such as installation of post tensioning high strength steel anchors, construction of mass concrete thrust blocks at the downstream face of the dam, and buttressing of the gate piers to resist increased hydraulic loading. The height of the dam will be raised by 8 feet and an additional monolith constructed at the east abutment to prevent overtopping of the existing dam and safely accommodate the probable maximum flood. A floodgate closure will be constructed across a state highway at the west abutment. The existing hydropower penstocks will be extended and retrofitted with gates to supplement the discharge capacity of the spillway and outlet works.

AUTHORIZATION: Executive Order of the President 7183-A, September 12, 1935; Flood Control Acts of 1936 and 1938.

REMAINING BENEFIT-REMAINING COST RATIO: Not applicable.

TOTAL BENEFIT-COST RATIO: Not applicable.

BASIS OF BENEFIT-COST RATIO: Not applicable.

SUMMARIZED FINANCIAL DATA:

Original Project

Actual Federal Cost \$ 28,618,100

Actual Non-Federal Cost 0

Total Original Project Cost \$ 28,618,100

Division: Great Lakes & Ohio River

District: Huntington

Bluestone Lake, WV

(Dam Safety Assurance)

SUMMARIZED FINANCIAL DATA: (continued)

COMMINATED THE WITCH EDITINE (COMMINGOR)					DUVCICAL
Project Modification			STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost	\$ 118,000,000		(1 00 2000)		00
Estimated Non-Federal Cost	0		Project Modification	20	TBD
Estillated Non-Federal Cost	U		F	PHYSICAL DATA	
Total Estimated Modification Cost	\$ 118,000,000				
Total Estimated Project Cost	\$ 146,618,100		Increase height of da thrust blocks; construmodify penstocks to relocate electrical lin	uct gate closure a supplement disch	cross State Route 20;
		ACCUM PCT OF EST FED COST			
Allocations to 30 September 2002 Conference Allowance for FY 2003 Allocation for FY 2003	\$ 21,235,000 TBD TBD				
Allocations through FY 2003	TBD	TBD			
Allocation Requested for FY 2004 Programmed Balance to Complete after FY 2004 Unprogrammed Balance to Complete after FY 2004	2,600,000 TBD 0	TBD			

JUSTIFICATION: The probable maximum flood is estimated to overtop the existing dam by 8 feet. Evaluations to date indicate the dam is in imminent danger of failure at pool levels approaching the top of dam. Dam failure would cause catastrophic flooding along the Greenbrier, New, Gauley, Kanawha, and Elk Rivers, including the metropolitan area and heavily industrialized capital city of Charleston, West Virginia. This is a serious public safety concern, with more than 115,000 persons at risk. Property damage would exceed \$6.5 billion.

Division: Great Lakes & Ohio River

District: Huntington

Bluestone Lake, WV

(Dam Safety Assurance)

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue Construction	1,700,000
Continue Planning, Engineering and Design	700,000
Continue Construction Management	200,000

Total \$ 2,600,000

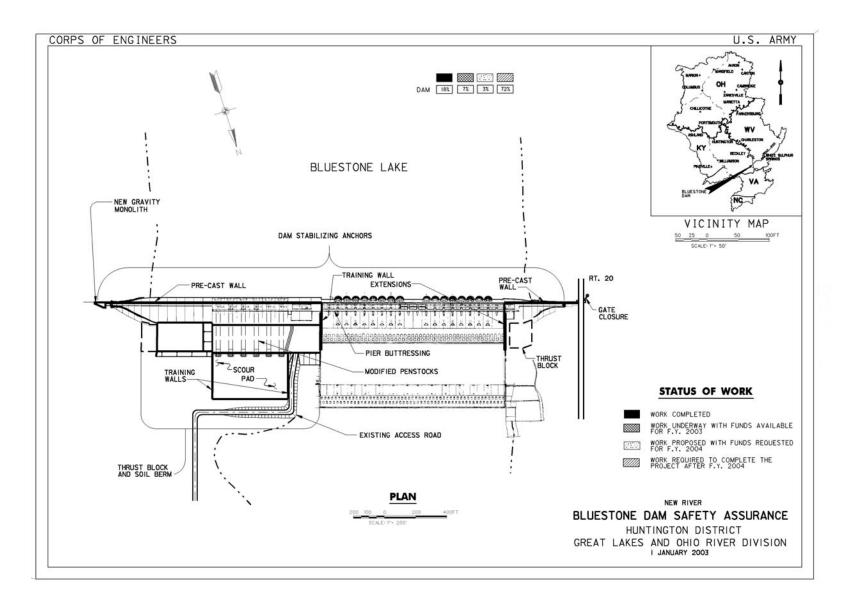
NON-FEDERAL COST: None. The dam safety assurance modification is being performed at full Federal expense.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$ 118,000,000 is unchanged from the latest estimate presented to Congress (FY 2003).

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The final Environmental Impact Statement was filed with EPA on August 31, 1998.

OTHER INFORMATION: The scheduled completion date has changed from the latest presented to Congress (FY 2003), September 2008, to TBD

Division: Great Lakes & Ohio River District: Huntington Bluestone Lake, WV (Dam Safety Assurance)



APPROPRIATION TITLE: Construction, General - (Environmental Mitigation, Restoration and Protection)

PROJECT: Chicago Sanitary & Ship Canal Dispersal Barrier, Illinois (Continuing)

LOCATION: The project is located along the Chicago Sanitary and Ship Canal near Romeoville, IL in Cook County.

DESCRIPTION: This project was initiated as a demonstration project to determine what techniques may best prohibit the dispersal of aquatic nuisance species in the large commercial shipping canal connecting the Great Lakes and Mississippi River drainage basins. The purpose of this project is to construct a physical barrier to prevent downstream migration of non-native invasive nuisance species of fish.

AUTHORIZATION: Section 1202, Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 (PL 101-636)

REMAINING BENEFIT-REMAINING COST RATIO: N/A.

TOTAL BENEFIT-COST RATIO: N/A.

INITIAL BENEFIT-COST RATIO: N/A.

BASIS OF BENEFIT-COST RATIO: N/A.

SUMMARIZED FINANCIAL D)ATA		STATUS (1 Jan 2003)	PERCENT COMPLETE	PHYSICAL COMPLETION SCHEDULE
Estimated Federal Cost (CoE))	\$ 3,313,000	Entire Project	80	Sep 2004
Estimated Federal Cost (OFA	.)	\$ 325,000			
Estimated Non-Federal Cost Cash Contributions Other Costs	0	0	Physical Data		
Total Estimated Project Cost		\$ 3,638,000	Low Barrier High Barrier	165 feet 165 feet	

Division: Great Lakes & Ohio River District: Chicago Chicago Sanitary and Ship Canal Dispersal Barrier, IL

3 February 2003

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ACCUM.
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SUMMARIZED FINANCIAL DATA (CONTINUED)

Allocations to 30 September 2002 \$ 2,313,000
Conference Allowance for FY 2003 TBD

Allocation for FY 2003 500 1/85

Allocations through FY 2003 2,813,000

Allocation Requested for FY 2004 500,000 100

Programmed Balance to Complete After FY 2004 0
Unprogrammed Balance to Complete after FY 2004 0

1) Reflects an anticipated amount.

JUSTIFICATION: The Chicago Sanitary and Ship Canal stands as the only aquatic link between the Great Lakes and Mississippi River drainage basins. The canal is heavily used by commercial and recreational crafts and it conveys water away from Lake Michigan downstream to the Des Plaines River, the Illinois Waterway and finally to the Mississippi River. This man-made canal serves as the sole unimpeded corridor for the dispersal of invasive aquatic species between these two major drainage basins. The adverse economic and ecological effects of invasive species can be devastating, as has been seen with the Zebra mussel and Sea Lamprey. Today, non-native species present in the Mississippi Basin are spreading towards the Great Lakes Basin and vice-versa. The Asian Carp fish infestation in the Illinois Waterway is only about 18 miles from the barrier location. At its present rate of migration, it could reach the barrier location in less than 1 year. It is essential to keep the barrier operational and to ensure all possible steps have been taken for successful operation of the barrier. The aquatic nuisance species barrier in the Sanitary and Ship Canal prevents the dispersal of invasive species, helps protect the native biodiversity and maintains the commercial and economic viability of the Sanitary and Ship Canal. The project provides an example of technologies that can be applied to other navigation canals where invasive species are a concern such as the Erie Canal, Lake Champlain, and the Tennessee Tombigbee Waterway.

Division: Great Lakes & Ohio River District: Chicago Chicago Sanitary and Ship Canal Dispersal Barrier, IL

FISCAL YEAR 2004: The requested amount will be applied as follows:

Continue monitoring of barrier	\$ 200,000
Continue maintenance of the barrier	100,000
Planning, Engineering and Design	150,000
Construction Management	50,000

Total \$ 500,000

NON-FEDERAL COST: Not applicable.

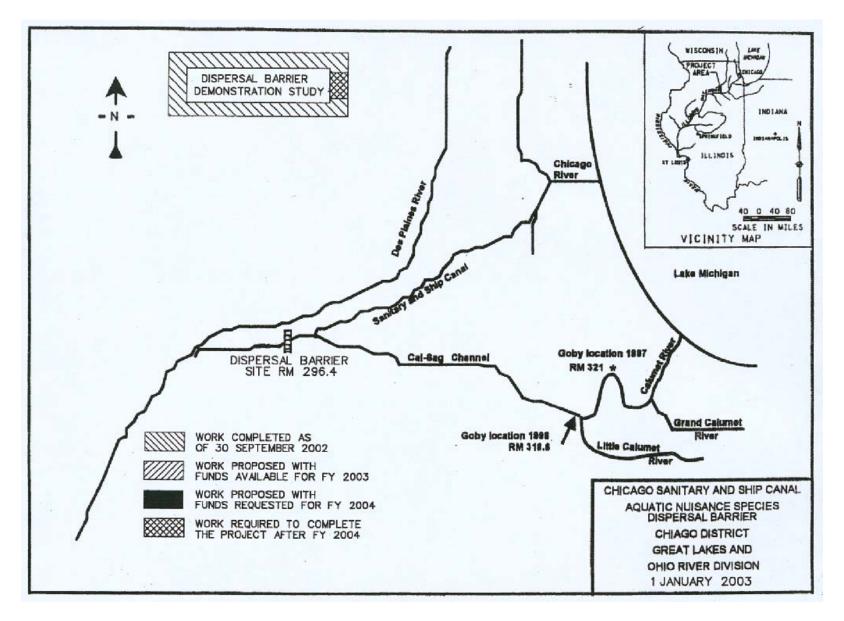
STATUS OF LOCAL COOPERATION: None required.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate is \$3,313,000.

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: Environmental Assessment of the bethnic barrier was issued in February 1999. Extensive coordination with other Federal, State and regional agencies, environmental groups and commercial users has occurred over the last two years.

OTHER INFORMATION: Funds to initiate construction were appropriated in FY 1998. Local and Federal Agencies such as the Environmental Protection Agency, U.S. State Department and Great Lakes Fisheries Commission have provided funds in the amount of \$150,000, \$100,000 and \$75,000 respectively.

Division: Great Lakes & Ohio River District: Chicago Chicago Sanitary and Ship Canal Dispersal Barrier, IL



APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

1. Navigation

a. Channels and Harbors

The program request of \$61,544,000 provides for the operational requirements of 70 projects. Requirements include: dredging, snagging, repairing channel stabilization works, harbor jetties, navigation structures, constructing bulkheads and confined disposal areas. The requested amount also includes an amount from the Special Fund established by WRDA96 covering 100% of the costs of operation and maintenance of dredged material disposal facilities for which fees were collected.

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Re</u> . 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Illinois				
Calumet Harbor	3,190,000	3,985,000		
and River	(203,000)	(505,000)	1.	Initiate Dredged Material Management Plan.
(IL & IN)	(2,987,000)	(3,480,000)	2.	Dredging of harbor channel; stone dock and breakwater repairs.
Chicago Harbor	2,616,000	2,319,000		
G	(1,612,000)	(1,619,000)	1.	None.
	(1,004,000)	(700,000)	2.	None.
Chicago River	362,000	362,000		
3.0	(362,000)	(362,000)	1.	None.
	(0)	(0)	2.	None.
Lake Michigan	1,037,000	537,000		
Diversion	(1,037,000)	(537,000)	1.	Technical Committee review complete; discontinue dual accounting.
	(0)	(0)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re . 1. 2.	Reason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Illinois (continued)				
Waukegan Harbor	1,270,000 (70,000) (1,200,000)	2,027,000 (73,000) (1,954,000)	1. 2.	None. Dredge the harbor approach channel; repair deteriorated breakwater.
Indiana				
Burns Harbor	3,427,000 (227,000) (3,200,000)	2,774,000 (312,000) (2,462,000)	1. 2.	Monitor underwater reef performance. Repair deteriorated breakwater.
Indiana Harbor	64,000 (64,000) (0)	316,000 (66,000) (250,000)	1. 2.	None. None.
Michigan City Harbor	1,132,000 (332,000) (800,000)	1,970,000 (260,000) (1,710,000)	1. 2.	Complete Dredged Material Management Plan. Repair deteriorated breakwater.
Kentucky Big Sandy Harbor	35,000 (35,000) (0)	35,000 (35,000) (0)	1. 2.	None. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ <u>Project Name</u>	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Re</u> 1. 2.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Michigan Arcadia Harbor	107,000 (20,000) (87,000)	20,000 (20,000) (0)	1. 2.	None. None.
Black River Port Huron	14,000 (14,000) (0)	16,000 (16,000) (0)	1. 2.	Variation in condition survey costs in FY 2004. None.
Channels in Lake St. Clair	128,000 (77,000) (51,000)	466,000 (142,000) (324,000)	1. 2.	Perform sediment sampling in FY 2004. None.
Charlevoix Harbor	124,000 (40,000) (84,000)	119,000 (35,000) (84,000)	1. 2.	Perform real estate activities in FY 2003. None.
Detroit River	3,192,000 (1,024,000) (2,168,000)	3,458,000 (1,036,000) (2,422,000)	1. 2.	None. Dredge critical shoals and perform location and removal of obstructions.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

ESTIMATED OBLIGATIONS (\$)				ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL	•	FY 2004 (10% +/-).
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Michigan (continued)				
Frankfort Harbor	177,000	3,112,000		
	(82,000)	(47,000)	1.	Conduct sediment sampling in FY 2003.
	(95,000)	(3,065,000)	2.	Repair North Breakwater, Sections C & D
Grand Haven	1,250,000	810,000		
Harbor	(276,000)	(351,000)	1.	Conduct dredged material management plans study in FY 2004.
	(974,000)	(459,000)	2.	None.
Holland Harbor	505,000	618,000		
	(188,000)	(185,000)	1.	None.
	(317,000)	(433,000)	2.	None.
Keweenaw Waterway	450,000	428,000		
· · · · · · · · · · · · · · · · · · ·	(105,000)	(83,000)	1.	Perform environmental and real estate activities in FY 2003.
	(345,000)	(345,000)	2.	None.
Leland Harbor	174,000	20,000		
	(20,000)	(20,000)	1.	None.
	(154,000)	(0)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

1. Navigation (continued)

a. Channels and Harbors (continued)

	ESTIMATED OBLIGATIONS (\$)			Reason For Change and Major Maintenance Items		
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to		
State/	TOTAL	TOTAL		FY 2004 (10% +/-).		
<u>Project Name</u>	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).		
Michigan (continued)						
Lexington Harbor	704,000	10,000				
	(54,000)	(10,000)	1.	Perform real estate and beach nourishment activities in FY 2003.		
	(650,000)	(0)	2.	None.		
_ittle Lake Harbor	462,000	12,000				
	(12,000)	(12,000)	1.	None.		
	(450,000)	(0)	2.	None.		
Ludington Harbor	95,000	946,000				
G	(95,000)	(100,000)	1.	None.		
	(0)	(846,000)	2.	None.		
Manistee Harbor	247,000	227,000				
	(47,000)	(42,000)	1.	Variation in condition survey costs in FY 2003.		
	(200,000)	(185,000)	2.	None.		
Marquette Harbor	193,000	10,000				
4401.0	(10,000)	(0)	1.	Perform condition surveys in FY 2003.		
	(183,000)	(10,000)	2.	None.		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

1. Navigation (continued)

a. Channels and Harbors (continued)

ESTIMATED OBLIGATIONS (\$)				Reason For Change and Major Maintenance Items			
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to			
State/	TOTAL	TOTAL		FY 2004 (10% +/-).			
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).			
Michigan (continued)							
Menominee Harbor	281,000	154,000					
(MI & WI)	(35,000)	(20,000)	1.	Conduct sediment coordination in FY 2003.			
	(246,000)	(134,000)	2.	None.			
Monroe Harbor	792,000	138,000					
	(62,000)	(52,000)	1.	Perform sediment Coordination in FY 2003.			
	(730,000)	(86,000)	2.	None.			
Muskegon Harbor	387,000	21,000					
3	(21,000)	(21,000)	1.	None.			
	(366,000)	(0)	2.	None.			
Ontonagon Harbor	1,745,000	473,000					
omonagon nanco.	(78,000)	(48,000)	1.	Perform archaeological investigations in FY 2003.			
	(1,667,000)	(425,000)	2.	None.			
Pentwater Harbor	25,000	45,000					
	(25,000)	(45,000)	1.	Perform Real Estate activities in FY 2004.			
	(0)	(0)	2.	None.			

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

1. Navigation (continued)

a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Michigan (continued)				
Port Austin Harbor	0 (0) (0)	20,000 (20,000) (0)	1. 2.	Perform condition surveys in FY 2004. None.
Port Sanilac Harbor	501,000 (30,000) (471,000)	27,000 (27,000) (0)	1. 2.	Variation in condition surveys costs in FY 2003. None.
Portage Lake Harbor	21,000 (21,000) (0)	1,167,000 (8,000) (1,159,000)	1. 2.	Perform condition surveys in FY 2003. Repair North and South Piers, Sections C & D (Phase II).
Rouge River	933,000 (127,000) (806,000)	177,000 (177,000) (0)	1. 2.	Perform sediment sampling in FY 2004. None.
Saginaw River	2,351,000 (420,000) (1,931,000)	2,001,000 (327,000) (1,674,000)	1. 2.	Perform confined disposal facility study in FY 2003. Perform dredging of critical shoals.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Rea 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Michigan (continued)				
Saugatuck Harbor	2,803,000	1,203,000		
	(20,000)	(15,000)	1.	Perform real estate activities in FY 2003.
	(2,783,000)	(1,188,000)	2.	Repair North and South revetment, sections C-G, (phase II).
St. Clair River	694,000	1,565,000		
	(177,000)	(177,000)	1.	None.
	(517,000)	(1,388,000)	2.	Dredge critical shoals and perform location and removal of obstructions.
St. Joseph Harbor	996,000	561,000		
	(182,000)	(197,000)	1.	None.
	(814,000)	(364,000)	2.	None.
Minnesota				
Duluth-Superior	4,506,000	4,991,000		
Harbor	(912,000)	(943,000)	1.	None.
(MN & WI)	(3,594,000)	(4,048,000)	2.	Dredge contaminated shoals and repair superior entry South pier (Phase II).

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ <u>Project Name</u>	FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
New York Barcelona Harbor	0 (0) (0)	3,000 (3,000) (0)	1. 2.	Real estate management in FY 2004. None.
Buffalo Harbor	643,000 (83,000) (560,000)	1,263,000 (98,000) (1,165,000)	1. 2.	Variation in condition surveys and environmental compliance management costs in FY 2004. Perform dredging, snagging and clearing in FY 2004.
Cattaraugus Creek Harbor	50,000 (50,000) (0)	5,000 (5,000) (0)	1. 2.	Conduct sediment sampling in FY 2003. Real estate management in FY 2004. None.
Dunkirk Harbor	480,000 (30,000) (450,000)	305,000 (30,000) (275,000)	1. 2.	None. None.
Olcott Harbor	10,000 (10,000) (0)	5,000 (5,000) (0)	1. 2.	Perform real estate management in FY 2003. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re a 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
New York (continued) Rochester Harbor	35,000 (35,000) (0)	55,000 (55,000) (0)	1. 2.	Environmental stewardship and real estate management. None.
Sturgeon Point Small Point Harbor	20,000 (0) (20,000)	20,000 (0) (20,000)	1. 2.	None. None.
Wilson Harbor	20,000 (20,000) (0)	3,000 (3,000) (0)	1. 2.	Conduct project condition surveys in FY 2003. Real estate management in FY 2004. None.
Ohio Ashtabula Harbor	1,915,000 (125,000)	1,245,000 (45,000)	1.	Sediment sampling and environmental analysis in FY2003. Variation in condition surveys.
	(1,790,000)	(1,200,000)	2.	Perform breakwater repairs, dewatering facility construction and upland CDF construction.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	<u>Re</u> 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Ohio (continued)				
Cleveland Harbor	3,520,000	3,235,000		
	(170,000)	(75,000)	1.	Perform environmental testing and formulation of master plans in FY 2003. Variation in condition surveys.
	(3,350,000)	(3,160,000)	2.	Perform dredging, H/L breakwater repairs, new combined disposal facility site
	(0,000,000)	(0,100,000)		planning and continued construction on East breakwater.
Conneaut Harbor	585,000	579,000		
	(30,000)	(130,000)	1.	Variation in condition surveys and sediment sampling in FY 2004.
	(555,000)	(449,000)	2.	None.
Cooley Canal	0	20,000		
•	(0)	(20,000)	1.	Environmental assessments in FY 2004.
	(0)	(0)	2.	None.
Fairport Harbor	1,090,000	735,000		
•	(40,000)	(35,000)	1.	Variation in condition survey costs in FY 2003.
	(1,050,000)	(700,000)	2.	None.
Huron Harbor	860,000	108,000		
	(50,000)	(58,000)	1.	Variation in condition surveys, real estate management and environmental compliance costs in FY 2003.
	(810,000)	(50,000)	2.	None.
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APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Ohio (continued)				
Lorain Harbor	3,400,000 (50,000) (3,350,000)	4,483,000 (55,000) (4,428,000)	1. 2.	Variation in condition surveys and environmental compliance costs in FY 2004. Perform west pier repair, maintenance dredging, H/L breakwater repairs, E&D new CDF and environmental compliance.
Port Clinton Harbor	1,275,000	10,000		
FOR CHIROTTIAIDO	(100,000)	(10,000)	1.	Conduct sediment sampling and analysis in FY 2003. Real estate management in FY 2004.
	(1,175,000)	(0)	2.	None.
Rocky River	30,000 (30,000) (0)	3,000 (3,000) (0)	1. 2.	Perform condition surveys in FY 2003. Real estate management in FY 2004. None.
Sandusky Harbor	1,010,000 (135,000) (875,000)	825,000 (50,000) (775,000)	1. 2.	Variation in condition survey costs, sediment sampling and analysis in FY 2003. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. **Navigation** (continued)
 - a. Channels and Harbors (continued)

	ESTIMATED OB			ason For Change and Major Maintenance Items
• • • •	FY 2003	FY 2004	1.	3 1
State/	<u>TOTAL</u>	TOTAL	•	FY 2004 (10% +/-).
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
	(ivialiteriance)	(iviaintenance)		(Tilleshold \$1,000,000).
Ohio (continued)				
Toledo Harbor	3,525,000	4,004,000		
	(225,000)	(325,000)	1.	Variation in condition surveys and sediment sampling and analysis costs in FY 2003.
	(3,300,000)	(3,679,000)	2.	Perform maintenance dredging, E&D on new CDF, environmental compliance and dewater cells 1,2 and Island 18.
Touissant River	520,000	20,000		
	(20,000)	(20,000)	1.	None.
	(500,000)	(0)	2.	None.
Vermilion Harbor	205,000	28,000		
Verminon Harbor	(30,000)	(28,000)	1	None.
	(175,000)	(0)	2.	None.
	,			
West Harbor	30,000	3,000		
	(30,000)	(3,000)	1.	Perform project condition surveys in FY 2003. Real estate management in FY
	(0)	(0)	0	2004.
	(0)	(0)	2.	None.
Pennsylvania				
Erie Harbor	60,000	135,000		
	(60,000)	(75,000)	1.	Variation in condition surveys and environmental compliance costs in FY 2004.
	(0)	(60,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

	ESTIMATED OF	SLIGATIONS (\$)	Re	Reason For Change and Major Maintenance Items		
•	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to		
State/	TOTAL	TOTAL	0	FY 2004 (10% +/-).		
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).		
Wisconsin						
Green Bay Harbor	1,924,000	3,492,000				
,	(316,000)	(296,000)	1.	None.		
	(1,608,000)	(3,196,000)	2.	Perform maintenance dredging of critical shoals.		
Kenosha Harbor	1,315,000	178,000				
	(15,000)	(20,000)	1.	Perform real estate activities in FY 2004.		
	(1,300,000)	(158,000)	2.	None.		
Kewaunee Harbor	75,000	120,000				
	(75,000)	(120,000)	1.	Perform sediment sampling in FY 2003.		
	(0)	(0)	2.	None.		
Manitowoc Harbor	278,000	63,000				
	(68,000)	(63,000)	1.	None.		
	(210,000)	(0)	2.	None.		
Milwaukee Harbor	789,000	781,000				
	(319,000)	(309,000)	1.	None.		
	(470,000)	(472,000)	2.	None.		
Port Washington Harbor	261,000	170,000				
	(12,000)	(12,000)	1.	None.		
	(249,000)	(158,000)	2.	None.		
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APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - a. Channels and Harbors (continued)

ESTIMATED OBLIGATIONS (\$)				Reason For Change and Major Maintenance Items		
Ctatal	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to		
State/ Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).		
Wisconsin (continued)						
Sheboygan Harbor	1,603,000	991,000	4	Nama		
	(46,000) (1,557,000)	(46,000) (945,000)	1. 2.	None. None.		
	(1,557,000)	(945,000)	۷.	None.		
Sturgeon Bay Harbor	1,578,000	317,000				
and Lake Michigan	(73,000)	(65,000)	1.	Perform real estate activities in FY 2003.		
Ship Canal	(1,505,000)	(252,000)	2.	None.		
Two Rivers Harbor	471,000	1,200,000				
	(15,000)	(23,000)	1.	Perform real estate activities in FY 2003.		
	(456,000)	(1,177,000)	2.	Repair South entrance pier, Sections C, D, D1 and South revetment.		
Other Projects	3,915,000	0				
Maintained	(515,000)	(0)				
Periodically	(3,400,000)	(0)				
TOTAL, Channels	68,482,000	61,544,000				
and Harbors	(10,893,000)	(10,030,000)				
	(57,589,000)	(51,514,000)				

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

1. Navigation (continued)

b. Locks, Dams and Canals

The program request of \$144,266,000 provides for the operational requirements of 16 projects. Requirements include: operation and ordinary maintenance of project facilities; facility security, labor, supplies and parts for day-to-day functioning of projects; periodic maintenance, repairs and replacements; and contract law enforcement. The requested amount also includes an amount from the Inland Waterways Trust Fund (IWTF) equal to ¼ of the total costs of operation and maintenance of inland waterways having averaged more than 5 billion ton-miles of traffic per year for the past 5 years, and ½ of the total costs of operation and maintenance of all other inland waterways.

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Rea 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky Green and Barren Rivers	1,081,000 (1,081,000) (0)	1,205,000 (1,205,000) (0)	1. 2.	Conduct periodic inspections in FY 2004. None.
Kentucky River	400,000 (400,000) (0)	17,000 (17,000) (0)	1. 2.	Transfer locks 1-4 to the State of Kentucky in FY 2004. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ <u>Project Name</u>	FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Re</u> 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky (continued) Ohio River Locks and Dams - Louisville District (Lower River Segment, Mile 438.0 to Mile 981.0; KY, IL, IN & OH)	30,969,000 (12,841,000) (18,128,000)	31,372,000 (13,429,000) (17,943,000)	1. 2.	None. Replace dam lighting & hydraulic piping & grating, dewater & repair 1200 chamber and modify upper gate leaves at Cannelton. Paint dam bulkheads, repair hydraulic system piping, replace expansion joint material, modify lower gate chamber and replace cable connections to tainter gates at Smithland. Repair latching devices for miter gates, replace lock lighting fixtures & expansion joint material and replace cable connections to tainter gates at newburgh. Replace expansion joint material & hydraulic piping, paint dam bulkheads, replace shafts of hydraulic cylinders, rebuild 2 filling valves, fabricate & install intake screens and replace cable connections to tainter gates at JT Myers. Replace dam light fixtures and rewire bulkhead hoist at McAlpine. Replace culvert valves, dewater & repair 600 chamber, repave dam bridge, replace underground electrical cable & floating mooring bits and modify 4 miter gate anchorages at Markland. Install HVAC system at L/D 53. Repair wall armor on the Ohio River. Conduct Endangered Species Study. Concrete repair.
Ohio River Open Channel Work - Louisville District (Lower River Segment, Mile 438.0 to Mile 981.0; KY, IL, IN & OH)	5,577,000 (617,000) (4,960,000)	4,560,000 (617,000) (3,943,000)	1. 2.	None. Perform navigation channel maintenance dredging to maintain channel. Monitor mussel beds and Least Tern Habitats.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re a 1. 2.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
New York Black Rock Channel and Tonawanda Harbor	1,041,000 (610,000) (431,000)	2,950,000 (645,000) (2,305,000)	1. 2.	None. H/L snagging and clearing, remedial actions, lock maintenance, dewater lock complete construction of upper West wall.
Pennsylvania Allegheny River	4,070,000 (4,070,000) (0)	4,596,000 (4,543,000) (53,000)	1. 2.	Automation study, periodic inspections and reports and an increase in normal operation cost in FY 2004. None.
Monongahela River (PA & WV)	14,357,000 (8,580,000) (5,777,000)	15,158,000 (9,382,000) (5,776,000)	1. 2.	Automation study – Upper Mon. River, periodic inspections and reports, and an increase in normal operating costs for FY 2004. Annual recurring maintenance, renovate land wall butterfly valve at Morgantown L&D, dewater 100' X 700' lock chamber at L/D 2, dewater 84' X 600' lock chamber at Hildebrand L&D and continue contract to replace tow haulage units L/D 2.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Pennsylvania (continued) Ohio River Locks and Dams - Pittsburgh District (Upper River Segment, Mile 0.0 to Mile 127.2; PA, OH & WV)	18,589,000 (8,900,000) (9,689,000)	22,504,000 (10,071,000) (12,433,000)	1. 2.	Increase in normal operating costs, management of archeological & cultural resources, automate flood damage computations & endangered species study. Routine maintenance, renovate middle wall emptying and stilling valves at Dashields L/D, renovate land wall stilling valve at Pike Island, renovate river wall emptying and stilling valves at Hannibal L/D and continue contract to fabricate floating mooring bits. Increased project security requirements.
Ohio River Open Channel Work - Pittsburgh District (Upper River Segment, Mile 0.0 to Mile 127.2; PA, OH & WV)	488,000 (0) (488,000)	488,000 (0) (488,000)	1. 2.	None. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Tennessee Chickamauga Lock, Tennessee River	1,025,000 (0) (1,025,000)	2,480,000 (0) (2,480,000)	1. 2.	None. Repair lock including a major dewatering, inspections, install instrumentation for the lock walls, and machinery repairs.
Tennessee River (TN, AL, KY & MS)	15,794,000 (5,947,000) (9,847,000)	16,521,000 (6,037,000) (10,484,000)	1. 2.	None. Dewater and repair Guntersville main and auxiliary locks. Install operating equipment at Nickajack auxiliary lock.
West Virginia Kanawha River	7,544,000 (4,289,000) (3,255,000)	7,655,000 (4,390,000) (3,265,000)	1. 2.	None. Perform channel maintenance dredging; Winfield Locks – Rehab lower miter gate, replace roller flap cables and rework electric motors in pier house; Marmet Locks – Roof replacement, concrete repairs on dam pier, replace bulkhead crane rail (also London); All Kanawha River Locks – Replace stoney gate valve wire rope, purchase replacement permanent operating equipment.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Rea 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
West Virginia (continued) Ohio River Locks and Dams - Huntington District (Middle River Segment, Mile 127.2 to Mile 438.0; WV, KY & OH)	18,991,000 (9,068,000) (9,923,000)	24,270,000 (9,241,000) (15,029,000)	1. 2.	None. Greenup L&D – Replace strut arm assemblies main lock, repair valves, fabricate and install gate tubes on miter gate, repair gate #3 tainter gate line shaft; Willow Island L&D – Replace tainter gate side seals; Racine L&D – Rehab lower main lock emergency gate leaf; Belleville L&D – Continuing contract metalize dam tainter gates; All Locks – cylinder change-out program; Upgrade facility security at Willow Island L&D, Racine L&D, and Belleville L&D. Increased project security requirements.
Ohio River Open Channel Work - Huntington District (Middle River Segment, Mile 127.2 to Mile 438.0; WV, KY & OH)	3,260,000 (593,000) (2,667,000)	2,366,000 (500,000) (1,866,000)	1. 2.	Water Control & Water Quality packages moved to Ohio River Locks & Dams. Perform annual navigation channel maintenance dredging.
Tygart Lake	5,546,000 (668,000) (4,878,000)	4,195,000 (629,000) (3,566,000)	1. 2.	None. Security upgrade, continuing contract to replace bulkhead hoist system, upgrade electrical and hydraulic systems and repair slide gates. ncreased project security requirements.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 1. Navigation (continued)
 - b. Locks, Dams and Canals (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	<u>Rea</u> 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Wisconsin Fox River	1,372,000 (1,312,000) (60,000)	3,929,000 (1,322,000) (2,607,000)	1. 2.	None. Renovate gate hoist mechanisms at Locks.
TOTAL, Locks, Dams and Canals	130,104,000 (58,976,000) (71,128,000)	144,266,000 (62,028,000) (82,238,000)		
TOTAL - NAVIGATION	198,586,000 (69,869,000) (128,717,000)	205,810,000 (72,058,000) (133,752,000)		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control

a. **Reservoirs**

The program request of \$75,674,000 provides for the operational requirements of 72 flood control reservoirs. Requirements include: operation and ordinary maintenance of project facilities; facility security, labor, supplies, materials, and parts for day-to-day functioning of projects; periodic maintenance, repairs, and replacements; and contract law enforcement. The requested amount also includes an amount from the Special Recreation Use Fees (SRUF) Special Fund for recreation areas.

	ESTIMATED OB	SLIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
State/ <u>Project Name</u>	FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	1. 2.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Indiana				
Brookville Lake	732,000	684,000		
	(732,000)	(680,000)	1.	None.
	(0)	(4,000)	2.	None.
Cagles Mill Lake	634,000	635,000		
3	(634,000)	(631,000)	1.	None.
	(0)	(4,000)	2.	None.
Cecil M. Harden Lake	704,000	745,000		
	(704,000)	(713,000)	1.	None.
	(0)	(32,000)	2.	None.
J. Edward Roush	1,108,000	951,000		
Lake	(763,000)	(747,000)	1.	None.
	• • • • • • • • • • • • • • • • • • • •		2	
	(345,000)	(204,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. Reservoirs (continued)

	ESTIMATED OBLIGATIONS (\$)			ason For Change and Major Maintenance Items	
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to	
State/	TOTAL	TOTAL		FY 2004 (10% +/-).	
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).	
	(Walliterlance)	(Walliterlance)		(Tilleshold \$1,000,000).	
Indiana (continued)					
Mississinewa Lake	853,000	1,234,000			
	(853,000)	(854,000)	1.	None.	
	(0)	(380,000)	2.	None.	
Monroe Lake	759,000	762,000			
	(759,000)	(758,000)	1.	None.	
	(0)	(4,000)	2.	None.	
Patoka Lake	727,000	687,000			
	(727,000)	(675,000)	1.	None.	
	(0)	(12,000)	2.	None.	
Salamonie Lake	649,000	681,000			
	(649,000)	(677,000)	1.	None.	
	(0)	(4,000)	2.	None.	
Kentucky					
Barren River Lake	2,074,000	2,484,000			
	(1,939,000)	(2,055,000)	1.	None.	
	(135,000)	(429,000)	2.	None.	

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Re 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky (continued)				
Buckhorn Lake	1,703,000 (1,252,000) (451,000)	1,394,000 (1,215,000) (179,000)	1. 2.	None. None.
Carr Creek Lake	1,343,000 (1,343,000) (0)	1,448,000 (1,336,000) (112,000)	1. 2.	None. None.
Cave Run Lake	833,000 (804,000) (29,000)	819,000 (815,000) (4,000)	1. 2.	None. None.
Dewey Lake	1,555,000 (1,330,000) (225,000)	1,636,000 (1,359,000) (277,000)	1. 2.	None. None.
Fishtrap Lake	1,927,000 (1,920,000)	1,681,000 (1,576,000)	1.	Water Quality for coal mining; Increased water management and water control activities; Project Condition Sediment Study; Periodic Inspection.
	(7,000)	(105,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

	ESTIMATED OF	BLIGATIONS (\$)	Rea	ason For Change and Major Maintenance Items	
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to	
State/	TOTAL	TOTAL	•	FY 2004 (10% +/-).	
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).	
Kentucky (continued)					
Grayson Lake	1,259,000	1,241,000			
•	(1,168,000)	(1,127,000)	1.	None.	
	(91,000)	(114,000)	2.	None.	
Green River Lake	2,769,000	2,359,000			
	(1,619,000)	(1,604,000)	1.	None.	
	(150,000)	(755,000)	2.	None.	
Martins Fork Lake	623,000	583,000			
	(585,000)	(534,000)	1.	None.	
	(38,000)	(49,000)	2.	None.	
Nolin Lake	1,992,000	1,829,000			
	(1,892,000)	(1,852,000)	1.	None.	
	(100,000)	(204,000)	2.	None.	
Paintsville Lake	982,000	1030,000			
	(932,000)	(977,000)	1.	None.	
	(50,000)	(53,000)	2.	None.	

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. Reservoirs (continued)

	ESTIMATED OB	BLIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL	0	FY 2004 (10% +/-).
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky (continued)				
Rough River Lake	2,120,000	2,848,000		
•	(1,974,000)	(2,132,000)	1.	None.
	(146,000)	(716,000)	2.	None.
Taylorsville Lake	913,000	981,000		
•	(876,000)	(905,000)	1.	None.
	(37,000)	(76,000)	2.	None.
Yatesville Lake	1,156,000	1,082,000		
	(1,131,000)	(1,055,000)	1.	None.
	(25,000)	(27,000)	2.	None.
New York				
Mt. Morris Lake	2,040,000	2,753,000		
	(1,210,000)	(1,213,000)	1.	None.
	(830,000)	(1,540,000)	2.	Debris removal, maintenance and repair of dam and facilities and recreation features and complete repair to access road to dam.
Ohio				
Alum Creek Lake	775,000	699,000		
, adm. Grook Lake	(720,000)	(696,000)	1.	None.
	(55,000)	(3,000)	2.	None.
	, , ,	, , ,	3 Febru	ary 2003 18-

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

	ESTIMATED OB	LIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
•	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/ Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Ohio (continued)				
Berlin Lake	1,857,000	1,690,000		
	(1,373,000)	(1,411,000)	1.	None.
	(484,000)	(279,000)	2.	None.
Caesar Creek Lake	1,234,000	1,490,000		
	(1,206,000)	(1,201,000)	1.	None.
	(28,000)	(289,000)	2.	None.
Clarence J. Brown	773,000	888,000		
Dam and Reservoir	(767,000)	(774,000)	1.	None.
	(6,000)	(114,000)	2.	None.
Deer Creek Lake	711,000	637,000		
	(701,000)	(615,000)	1.	Project Condition Sediment Study; Digital Project Notebook.
	(10,000)	(22,000)	2.	None.
Delaware Lake	932,000	1,181,000		
	(644,000)	(589,000)	1.	None.
	(288,000)	(592,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Ohio (continued)				
Dillon Lake	576,000	532,000		
	(471,000)	(480,000)	1.	None.
	(105,000)	(52,000)	2.	None.
Michael J. Kirwan	789,000	793,000		
Dam and Reservoir	(686,000)	(640,000)	1.	None.
	(103,000)	(153,000)	2.	None.
Mosquito Creek Lake	1,036,000	1,176,000		
mooquito or ook Lake	(958,000)	(1,090,000)	1.	Continue dam safety assurance study to correct spillway hazard.
	(78,000)	(86,000)	2.	None.
Muskingum River	6,133,000	7,799,000		
Lakes	(4,934,000)	(5,605,000)	1.	Dam Safety Assurance Studies for Bolivar Dam Design and Dover Structural Analysis.
	(1,199,000)	(2,194,000)	2.	Connect Bolivar Dam to city water; Magnolia Levee Dam safety repair; Repair service gates at Bolivar Dam; Replace standby generator at intake structure Mohawk Dam; Correct stoplog deficiencies at Beach City Lake; Remove silt/debris from control houses; Correct recreation deficiencies.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. Reservoirs (continued)

	ESTIMATED OB	BLIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL		FY 2004 (10% +/-).
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Ohio (continued)				
North Branch of	319,000	185,000		
Kokosing River	(319,000)	(183,000)	1.	Project recreation not yet turned over to Muskingum Watershed Conservancy District (MWCD).
	(0)	(2,000)	2.	None.
Paint Creek Lake	778,000	788,000		
	(637,000)	(636,000)	1.	None.
	(141,000)	(152,000)	2.	None.
Tom Jenkins Dam	240,000	238,000		
	(230,000)	(236,000)	1.	None.
	(10,000)	(2,000)	2.	None.
West Fork of Mill	461,000	455,000		
Creek Lake	(408,000)	(398,000)	1.	None.
	(53,000)	(57,000)	2.	None.
William H. Harsha	992,000	941,000		
Lake	(770,000)	(770,000)	1.	None.
	(222,000)	(171,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

	ESTIMATED OF	BLIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL		FY 2004 (10% +/-).
Project Name	(Operations)	(Operations)	2.	Major Maintenance Items Budgeted in FY 2004
	(Maintenance)	(Maintenance)		(Threshold \$1,000,000).
Pennsylvania				
Conemaugh River	898,000	962,000		
Lake	(795,000)	(760,000)	1.	None.
	(103,000)	(202,000)	2.	None.
Crooked Creek Lake	1,746,000	1,369,000		
	(1,293,000)	(1,009,000)	1.	Periodic inspection & report, real property reconciliations and water
	(453,000)	(360,000)	2.	management activities. None.
East Branch	1,318,000	1,057,000		
Clarion River	(865,000)	(778,000)	1	Periodic inspection reports and water management activities.
Lake	(453,000)	(279,000)	2.	None.
Kinzua Dam and	1,231,000	1,437,000		
Allegheny Reservoir	(1,153,000)	(1,088,000)	1.	None.
(PA & NY)	(78,000)	(349,000)	2.	None.
Loyalhanna Lake	957,000	885,000		
	(854,000)	(735,000)	1.	Water management activities, real estate management and periodic inspection reports.
	(103,000)	(150,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. Reservoirs (continued)

	ESTIMATED OF	SLIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL		FY 2004 (10% +/-).
Project Name	(Operations)	(Operations)	2.	Major Maintenance Items Budgeted in FY 2004
	(Maintenance)	(Maintenance)		(Threshold \$1,000,000).
Pennsylvania (continued)				
Mahoning Creek Lake	848,000	820,000		
J	(795,000)	(728,000)	1.	None.
	(53,000)	(92,000)	2.	None.
Shenango River	2,734,000	2,174,000		
Lake	(1,946,000)	(1,526,000)	1.	Real property and out-grant management, water management activities and initiate hydraulic model study for stilling basin repairs.
	(788,000)	(303,000)	2.	None.
Tionesta Lake	2,032,000	1,790,000		
	(1,314,000)	(1,439,000)	1.	None.
	(718,000)	(351,000)	2.	None.
Union City Lake	245,000	224,000		
	(232,000)	(205,000)	1.	Water management activities.
	(13,000)	(19,000)	2.	None.
Woodcock Creek Lake	761,000	810,000		
	(708,000)	(719,000)	1.	None.
	(53,000)	(91,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

State/ Project Name	FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Rea 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Pennsylvania (continued)				
Youghiogheny River	1,895,000	1,804,000		
Lake (PA & MD)	(1,502,000)	(1,651,000)	1.	None.
	(393,000)	(153,000)	2.	None.
Virginia				
John W. Flannagan	1,334,000	1,341,000		
Dam and Reservoir	(1,294,000)	(1,338,000)	1.	None.
	(40,000)	(3,000)	2.	None.
North Cort of Down	207.000	242.000		
North Fork of Pound River Lake	297,000	343,000	1	None.
River Lake	(297,000)	(311,000) (32,000)	1. 2.	None.
	(0)	(32,000)	۷.	Notice.
West Virginia				
Beech Fork Lake	1,167,000	1,061,000		
	(1,038,000)	(1,058,000)	1.	None.
	(129,000)	(3,000)	2.	None.
	(-,,	(-,,		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. Reservoirs (continued)

State/ <u>Project Name</u>	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Re 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
West Virginia (continued)				
Bluestone Lake	6,149,000	1,074,000		
	(1,044,000)	(966,000)	1.	None.
	(105,000)	(108,000)	2.	None.
	4 === 000	4 440 000		
Burnsville Lake	1,555,000	1,446,000		
	(1,555,000)	(1,443,000)	1.	None.
	(0)	(3,000)	2.	None.
East Lynn Lake	1,832,000	1,609,000		
Last Lynn Lake	(1,670,000)	(1,605,000)	1	None.
	(1,070,000)	(4,000)	2.	None.
	(102,000)	(4,000)	۷.	None.
R.D. Bailey Lake	1,431,000	1,457,000		
,	(1,371,000)	(1,394,000)	1.	None.
	(60,000)	(63,000)	2.	None.
	(,3)	(,)		
Stonewall Jackson	905,000	836,000		
Lake	(808,000)	(707,000)	1.	Periodic inspection, water management activities and real estate management.
	(80,000)	(129,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

a. **Reservoirs** (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	<u>Re:</u> 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
West Virginia (continued) Summersville Lake	1,603,000 (1,402,000) (201,000)	1,469,000 (1,401,000) (68,000)	1. 2.	None. None.
Sutton Lake	1,777,000 (1,465,000) (312,000)	1,785,000 (1,631,000) (154,000)	1. 2.	Periodic inspection; Increased activity in Water Control and Water Quality. None.
TOTAL, Reservoirs	73,776,000 (64,038,000) (9,738,000)	75,674,000 (63,306,000) (12,368,000)		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

b. Channel Improvements, Inspection and Miscellaneous Maintenance

The program request of \$2,576,000 provides for the annual and periodic maintenance requirements of 7 local protection projects and the inspection of completed works during the budget year.

State/ Project Name	ESTIMATED OF FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky				
Middlesboro	52,000	92,000		
	(52,000)	(92,000)	1.	Perform survey and issue report for channel capacity.
	(0)	(0)	2.	None.
Michigan				
Sebewaing River	12,000	7,000		
3	(7,000)	(7,000)	1.	None.
	(5,000)	(0)	2.	None.
Ohio				
Massillon	25,000	25,000		
	(0)	(0)	1.	None.
	(25,000)	(25,000)	2.	None.
Roseville	30,000	30,000		
	(0)	(0)	1.	None.
	(30,000)	(30,000)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

b. Channel Improvements, Inspection and Miscellaneous Maintenance (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	LIGATIONS (\$) FY 2004 TOTAL (Operations) (Maintenance)	Re : 1. 2.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Pennsylvania				
Johnstown	1,243,000 (13,000) (1,230,000)	997,000 (17,000) (980,000)	1. 2.	Real property, new out-grants and land use assessments. None.
Punxsutawney	13,000 (13,000) (0)	17,000 (17,000) (0)	1. 2.	Real property, new out-grants and land use assessments. None.
West Virginia				
Elkins	16,000 (16,000) (0)	18,000 (18,000) (0)	1. 2.	Perform real property management. None.
Other Projects Maintained Periodically	0 (0) (0)	0 (0) (0)		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

2. Flood Control (continued)

b. Channel Improvements, Inspection and Miscellaneous Maintenance (continued)

440 000

	ESTIMATED OB	LIGATIONS (\$)	Re	ason For Change and Major Maintenance Items
	FY 2003	FY 2004	1.	Reason for Change in Operations from FY 2003 to
State/	TOTAL	TOTAL		FY 2004 (10% +/-).
Project Name	(Operations)	(Operations)	2.	Major Maintenance Items Budgeted in FY 2004
	(Maintenance)	(Maintenance)		(Threshold \$1,000,000).

Inspection of Completed Works. The \$1,390,000 requested in FY 2003 supports inspections at flood control projects constructed by the Corps and operated and maintained by non-Federal interests. The inspections are conducted to determine the extent of compliance with legal standards and to advise local interests, as necessary, of corrective measures required to ensure that project structures and facilities will continue to safely provide flood protection benefits. These projects consist of features such as channels, levees, flood walls, drainage structures and pumping plants.

Illinois	188,000	148,000		
Indiana	168,000	346,000		
Kentucky	167,000	83,000		
Michigan	154,000	153,000		
Minnesota	14,000	15,000		
New York	281,000	190,000		
Ohio	233,000	210,000		
Pennsylvania	30,000	129,000		
Tennessee	7,000	0		
West Virginia	111,000	85,000		
Wisconsin	31,000	31,000		
Inspection of	1,384,000	1,390,000		
Completed Works	(1,384,000)	(1,390,000)	1.	None.
	(0)	(0)	2.	None.

400 000

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

- 2. Flood Control (continued)
 - b. Channel Improvements, Inspection and Miscellaneous Maintenance (continued)

State/ <u>Project Name</u>	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	 Reason For Change and Major Maintenance Items 1. Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). 2. Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
TOTAL, Channel Improvements, Inspection and Miscellaneous Maintenance	2,775,000 (1,485,000) (1,290,000)	2,576,000 (1,541,000) (1,035,000)	
TOTAL - FLOOD CONTROL	76,551,000 (65,523,000) (11,028,000)	78,250,000 (64,847,000) (13,403,000)	

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

3. Multiple Purpose Power

The program request of \$75,277,000 provides for the operational requirements of 10 multiple purpose projects. Requirements include: operation and ordinary maintenance of project facilities; facility security, labor, supplies, materials, and parts for day-to-day functioning; periodic maintenance, repairs, and replacements; and contract law enforcement. The requested amount also includes application of special recreation use fees for recreation areas.

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Re:</u> 1. 2.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Kentucky Barkley Dam and Lake Barkley (KY & TN)	8,171,000 (4,198,000) (3,973,000)	8,902,000 (4,265,000) (4,637,000)	1. 2.	None. Design for the rehabilitation of the Barkley Power Plant.
Laurel River Lake	1,542,000 (641,000) (901,000)	1,572,000 (643,000) (929,000)	1. 2.	None. None.
Wolf Creek Dam and Lake Cumberland	7,162,000 (3,213,000) (3,949,000)	10,670,000 (3,282,000) (7,388,000)	1. 2.	None. Modify turbine for improved water quality and rewind hydropower generator units 4 and 6, second year.
Michigan St. Marys River	18,181,000 (5,817,000) (12,364,000)	19,092,000 (6,296,000) (12,796,000)	1. 2.	None. Maintenance of the locks and locate and remove obstructions.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

3. **Multiple Purpose Power** (continued)

State/ Project Name	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Rea</u> 1.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Tennessee Center Hill Lake	6,031,000 (2,837,000) (3,194,000)	8,604,000 (2,827,000) (5,777,000)	1. 2.	None. Upgrade facility security and design for the rehabilitation of Center Hill power
Cheatham Lock and Dam	6,257,000 (3,107,000) (3,150,000)	5,612,000 (3,148,000) (3,464,000)	1. 2.	None. None.
Cordell Hull Dam and Reservoir	6,407,000 (2,283,000) (4,124,000)	3,870,000 (2,343,000) (1,527,000)	1. 2.	None. None.
Dale Hollow Lake (TN & KY)	5,720,000 (2,731,000) (2,989,000)	6,120,000 (2,624,000) (3,496,000)	1. 2.	None. Upgrade facility security.
J. Percy Priest Dam and Reservoir	2,954,000 (2,327,000) (627,000)	3,150,000 (2,351,000) (799,000)	1. 2.	None. None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

3. **Multiple Purpose Power** (continued)

State/ <u>Project Name</u>	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	<u>Re</u> 1. 2.	ason For Change and Major Maintenance Items Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
Tennessee (continued) Old Hickory Lock and Dam	6,598,000 (4,185,000) (2,413,000)	7,685,000 (3,428,000) (4,257,000)	1. 2.	Conduct a major hydropower rehabilitation study in FY 2003. None.
TOTAL - MULTIPLE PURPOSE POWER	69,023,000 (31,339,000) (37,684,000)	75,277,000 (31,207,000) (44,070,000)		

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

4. Protection of Navigation

The program request of \$4,999,000 provides for accomplishing project condition surveys for projects where maintenance is not scheduled in the budget year. It also provides for Great Lakes water control monitoring.

	ESTIMATED OB	SLIGATIONS (\$)	Rea	ason For Change and Major Maintenance Items
State/	FY 2003 TOTAL	FY 2004 TOTAL	1.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-).
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).

Project Condition Surveys. The \$845,000 requested in FY 2004 supports hydrographic surveys, inspections, and studies to determine the condition of navigation channels that do not have any other maintenance work included in the budget request and disseminate the information to users of the projects. For the projects that do not require maintenance, surveys are performed at many of them in order to determine the degree of sedimentation so that users can be advised of channel conditions and future maintenance can be scheduled.

Illinois	30,000	30,000		
Indiana	55,000	55,000		
Michigan	234,000	182,000		
Minnesota	22,000	52,000		
New York	252,000	290,000		
Ohio	90,000	129,000		
Pennsylvania	18,000	21,000		
Wisconsin	56,000	86,000		
Project Condition	757,000	845,000		
Surveys	(757,000)	(845,000)	1.	Variation in number of projects surveyed in FY 2004.
•	(0)	(0)	2.	None.

APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

4. **Protection of Navigation** (continued)

	ESTIMATED OB	D OBLIGATIONS (\$)		Reason For Change and Major Maintenance Items	
State/	FY 2003 TOTAL	FY 2004 TOTAL	1.	Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-).	
Project Name	(Operations) (Maintenance)	(Operations) (Maintenance)	2.	Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).	

Surveillance of Northern Boundary Waters. The \$4,154,000 requested in FY 2004 supports meeting U.S. obligations under provisions of boundary water treaties and other international agreements. Data collection includes current velocity measurements, presence and intensity of ice, water levels, land use patterns and estimating potential damages caused by extreme levels. This information can be used to enhance water level forecasts, develop crises response plans, and provide advance warning to area residents and waterway users of impending floods or ice jams.

Illinois	111,000	111,000		
Indiana	130,000	115,000		
Michigan	2,507,000	2,410,000		
Minnesota	238,000	216,000		
New York	595,000	586,000		
Ohio	175,000	165,000		
Pennsylvania	72,000	79,000		
Wisconsin	498,000	472,000		
Surveillance of	4,326,000	4,154,000		
Northern Boundary	(4,326,000)	(4,154,000)	1.	None.
Waters	(0)	(0)	2.	None.

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APPROPRIATION TITLE: Operation and Maintenance, General, FY 2004

4. **Protection of Navigation** (continued)

State/ <u>Project Name</u>	ESTIMATED OB FY 2003 TOTAL (Operations) (Maintenance)	FY 2004 TOTAL (Operations) (Maintenance)	 Reason For Change and Major Maintenance Items 1. Reason for Change in Operations from FY 2003 to FY 2004 (10% +/-). 2. Major Maintenance Items Budgeted in FY 2004 (Threshold \$1,000,000).
TOTAL -	5,083,000	4,999,000	
PROTECTION	(5,083,000)	(4,999,000)	
OF NAVIGATION	(0)	(0)	
GRAND TOTAL -	349,243,000	364,336,000	
GREAT LAKES	(171,814,000)	(173,111,000)	
AND OHIO RIVER	(177,429,000)	(191,225,000)	